Technical Parameter

Type		KSCAN-Magic	KSCAN-Magic II
Scan mode	Ultra-fast scanning	11 blue laser crosses	13 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	
Laser lines in total		41	45
Accuracy [1]		0.020 mm	
Scanning rate		Up to 1,350,000 measurements/s	Up to 1,650,000 measurements/s
Scanning area		Up to 1440 mm × 860 mm	
Photogrammetry system	Standard configuration	Built-in	
	Scanning area	3760 mm × 3150mm	
	Depth of field	2500 mm	
Laser class		CLASS II (eye-safe)	
Resolution		0.010 mm	
Volume accuracy [2]	Work alone	Up to 0.015 mm + 0.030 mm/m	
	Work with 1m reference bar	Up to 0.015 mm + 0.020 mm/m	
	Work with MSCAN-L15	Up to 0.015 mm + 0.015 mm/m	
Stand-off distance		300 mm	
Depth of field		925 mm	
Portable CMM K-Probe	Optional	Support	
	Single point repeatability	0.030 mm	
	Tracking frequency	60 hz	
Intelligent edge inspection module	Optional	Support	
	Edge accuracy	0.030 mm	
Pipe inspection module	Optional	Support	
	Output formats	YBC / LRA / compensation value	
Output formats		.stl, .ply, .obj, .igs, .stp, .wrl, .xyz, .dae, .fbx, .ma, .asc or customized	
Operating temperature range		-10℃~40℃	
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	

(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.

Massive Functions

Built-in photogrammetry system, intelligent edge detection, contact probing and pipe measurement fulfill diverse application needs.

Anti-dust & fog markers

Ergonomic design

Single point repeatability 0.030 mm

Intelligent edge detection
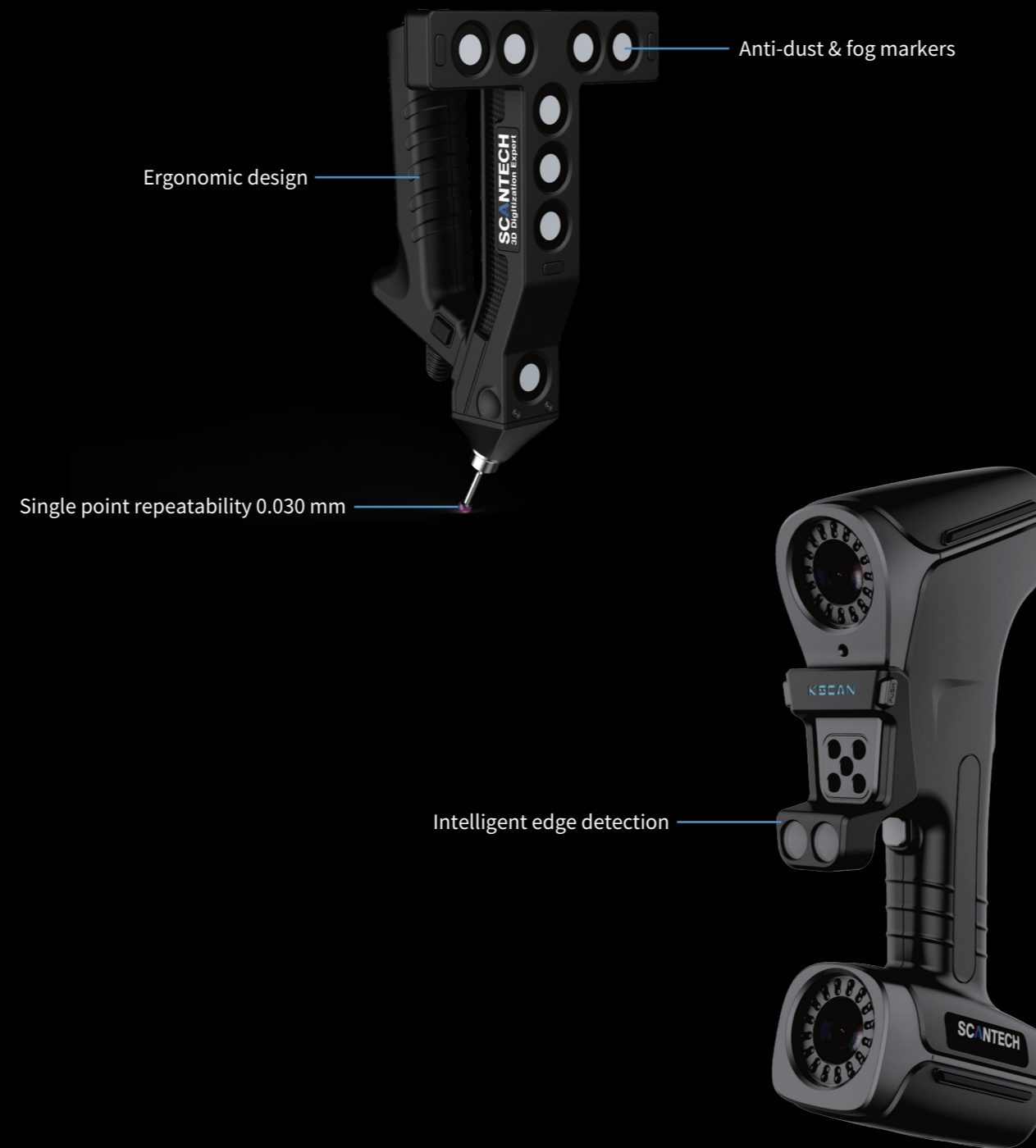
SCANTECH™

KSCAN-MAGIC
Composite 3D Scanner

### Experience Diverse Ultimate
From Metrology Measurement

SCANTECH™

SCANTECH (HANGZHOU) CO., LTD

KSCAN-MAGIC

KSCAN-Magic composite 3D scanner opens up the first introduction of infrared laser + blue laser technology with five standard working modes: global initiative parallel infrared laser large area scanning, blue laser crosses fast scanning, blue parallel laser fine scanning, single blue laser deep hole scanning, built-in photogrammetry system.

KSCAN-Magic series have a revolutionary breakthrough in performance. Its unparalleled scanning speed, accuracy, detail, scanning area, and depth of field greatly optimize the 3D measurement workflows and accelerate the product time-to-market. To obtain data on hard-to-reach or complex surfaces, KSCAN-Magic series can be equipped with portable CMM K-Probe, providing a comprehensive 3D digital solution for precision measurement.
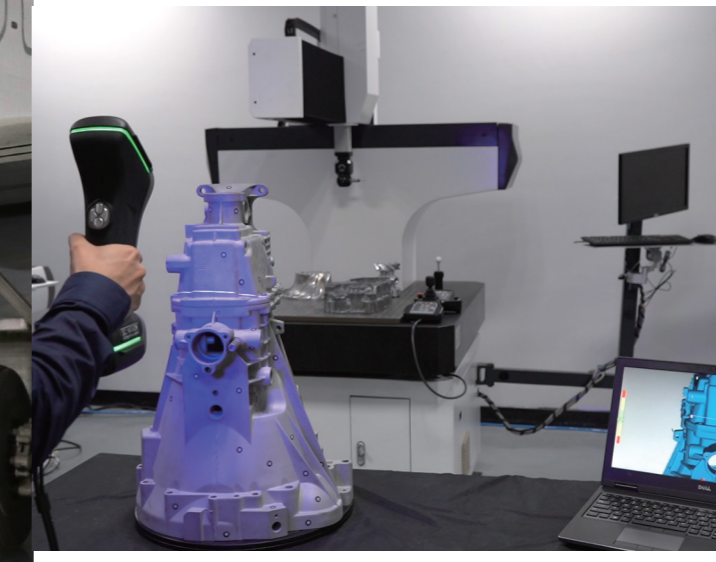
Innovative Infrared Laser

KSCAN-Magic innovatively adopts infrared laser scanning technology in worldwide. Its ultimate scanning area reaches 1440 mm × 860 mm, achieving precise wide range measurement with ease.

Metrology-grade NDT Measuring

0.020 mm of scanning accuracy and 0.03 mm/m of volume accuracy; deliver ultra-high precision NDT for the aerospace industry.
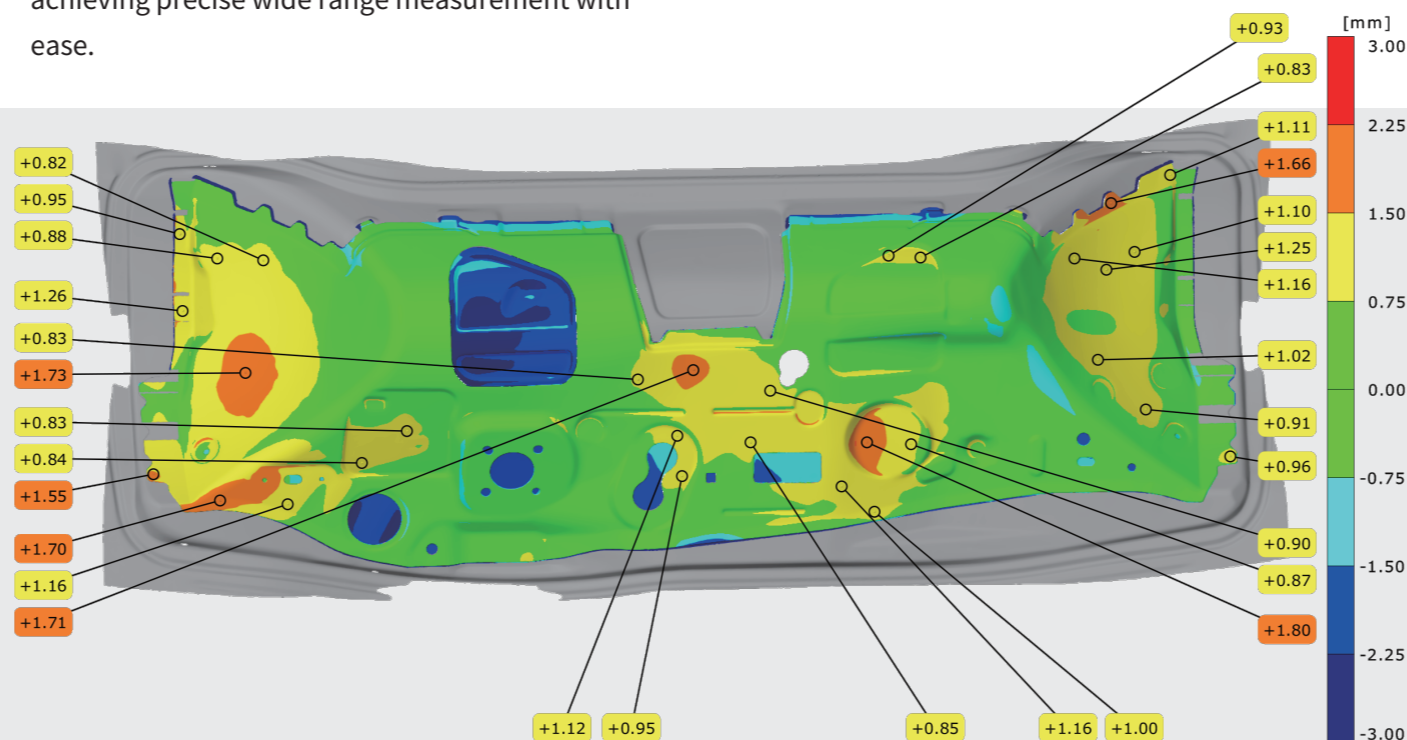
Extreme-clear Details

Under hyperfine scanning mode, KSCAN-Magic 3D scanner can accurately obtain complete data on the surface of complex objects, easily capturing every detail with resolution of 0.010 mm.

Single Laser Line Scanning

Single laser line scanning mode accurately and quickly captures 3D data of deep holes and dead angle positions.

Effortless Efficiency

With 41 laser lines, KSCAN-Magic 3D scanner delivers ultra-fast scanning rate of 1,350,000 measurements/s. By flexibly switching the scanning modes, it satisfies different application needs, dramatically improving working efficiency.

No Fear of Harshness

KSCAN-Magic supports super-high work adaptability in harsh environment; realistically restores the precise 3D data of reflective and black surface.