Technical Parameter

Type	KSCAN20	
Scan mode	Standard mode R	Hyperfine mode B
Laser source	7 red laser crosses(+ 1 extra red line)	5 blue parallel laser lines
Accuracy(1)	0.020 mm	
Built-in photogrammetry	Support	
Hyperfine scan	Support	
Volumetric accuracy(2) (based on part size)	0.020 mm + 0.035 mm/m	0.010 mm + 0.035 mm/m
Volumetric accuracy with(2) high-precision reference bar	0.020 mm/m	
Resolution	0.050 mm	0.010 mm
Measurement rate	650,000 measurements/s	
Laser class	CLASS II (eye-safe)	
Scanning area	550 mm×600 mm	
Scanning area (photogrammetry)	2500 mm×3000 mm	
Stand-off distance	500 mm	180 mm
Depth of field	620 mm	200 mm
Depth of field (photogrammetry)	2500 mm	
Single point repeatability	0.030 mm	
Tracking frequency (portable CMM)	60 hz	
Edge accuracy	0.030 mm	
Pipe inspection in software	Support YBC/LRA data	
Output formats	.stl, .ply, .obj, .igs, .stp, .wrl, .xyz, .dae, .fbx, .ma, .asc or customized	
Interface mode	USB 3.0	
Operating temperature range	-10~40 °C	
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.

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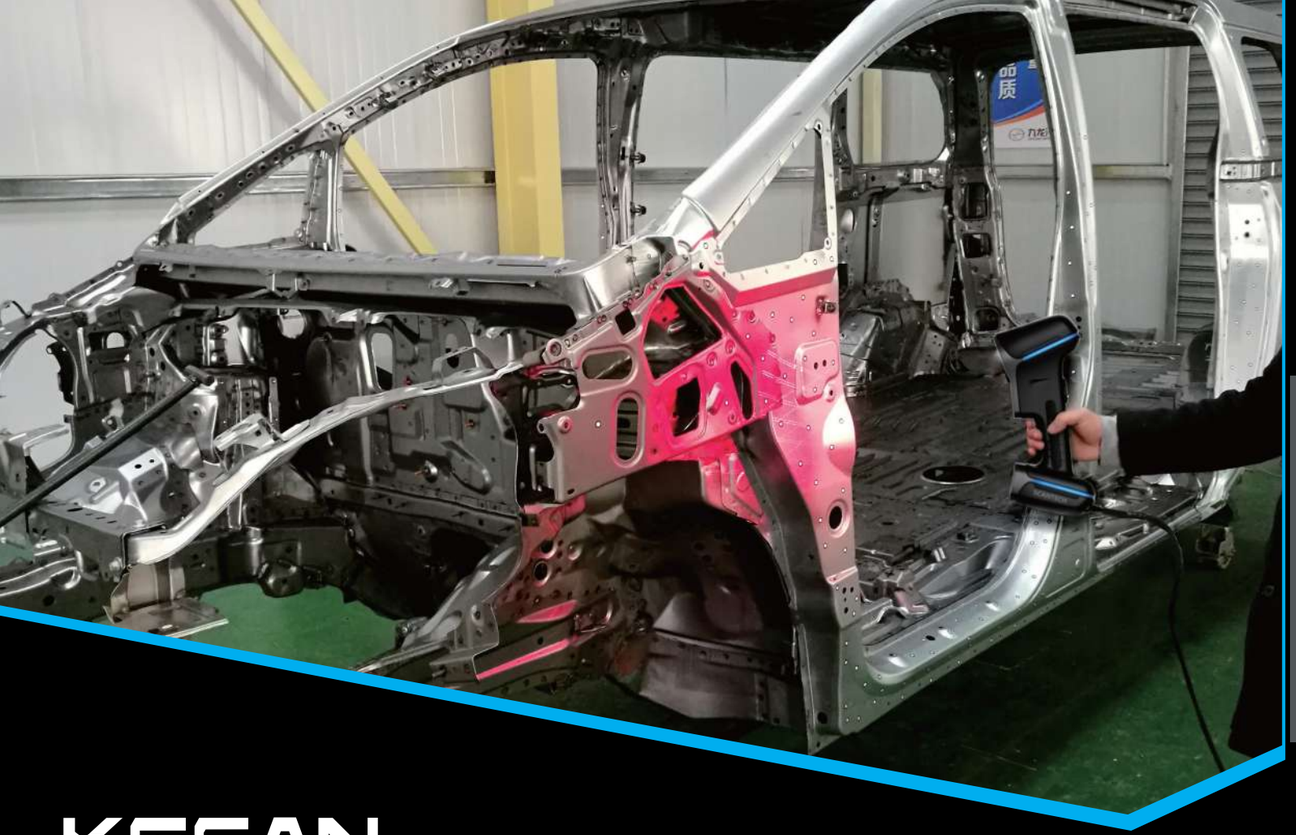


KSCAN

KSCAN 3D Scanner integrates photogrammetry function and dual laser scan mode which are global initiative technologies. The built-in photogrammetry function greatly expands the scan area and improves volumetric accuracy. KSCAN combines high efficiency and ultra-detail benefitting from dual laser scan mode. Moreover, KSCAN offers practical solutions targeting at objects range from 0.02m to 10m.

KSCAN supports probing that can correctly acquire the 3D data of hole, plane, edge, etc. KSCAN can fulfill different measurements and analysis functions such as pipe measurement, deformation detection and 3D inspection with 3D software---ScanViewer, which conducts effective, reliable and full-scale 3D measurement technologies for product design and inspection professionals.

High volumetric accuracy

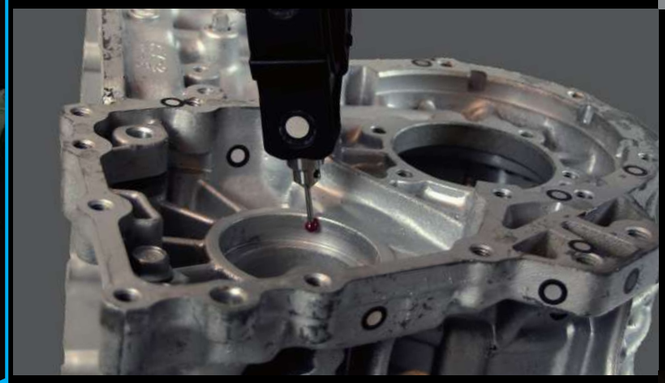
Probing

Resolution Up to 10μm

Edge inspection

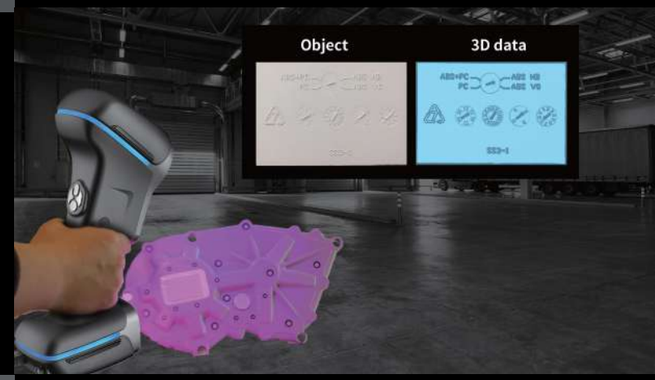
Unlimited Measuring Range

KSCAN has built-in photogrammetry system. The accuracy reaches 0.02mm and the volumetric accuracy is up to 0.035mm/m. It can individually achieve high accurate 3D measurement range from 0.02m to 10m.



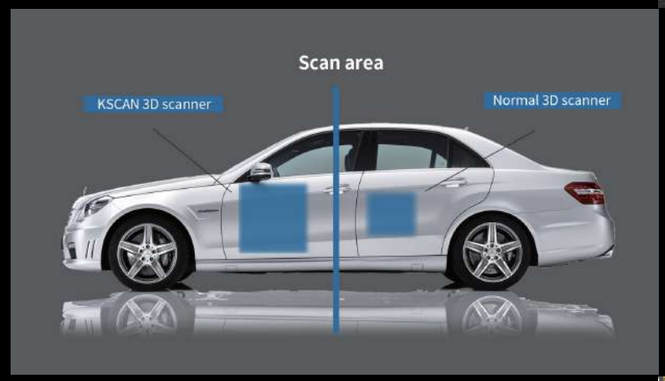
Probing

KSCAN can quickly obtain accurate 3D data with probing and satisfy strict measuring requirements.



Incomparable Resolution

Dual laser scan mode are freely switched. Ultra-high resolution easily captures the texture data of a coin. The resolution is up to10μm.



Higher Efficiency

KSCAN upgrades in speed and scan area, which greatly reduces cost of device, time and labor.

Multi-functional 3D Software

KSCAN can work with ScanViewer to fulfill different inspection functions such as pipe measurement, deformation detection and GD&T.