

KSCAN - E

The flagship KSCAN-E is a wireless, all-in-one 3D scanner that redefines industrial measurement with exceptional precision and flexibility. Its 6 operating modes capture high-quality data from both large surfaces and fine details. With accuracy up to 0.020 mm and innovative quad-laser scanning, KSCAN-E meets the toughest industry demands—from aerospace and automotive to energy and heavy industry.

Powerful Scan at Your Fingertips

Exceptional Accuracy

The KSCAN-E delivers high-precision, non-destructive 3D scanning with 0.020 mm accuracy. Paired with photogrammetry system, it achieves volumetric accuracy of up to 0.015 mm + 0.012 mm/m, ensuring reliable results for demanding industrial applications.

Efficient Measurement

Designed for speed, the KSCAN-E uses quad-cross laser technology with 4×27 blue lines, a 180-fps frame rate, and 8.29 million measurements/s to deliver fast, accurate scanning—ideal for high-efficiency industrial workflows.

Excellent Detail Capture

The KSCAN-E features 17 parallel blue laser lines and resolution of up to 0.010 mm, combined with DefinSight real-time meshing for precise capture of fine features like gaps, edges, and slots.

Fully Wireless

KSCAN-E's lightweight design and one-handed operation make it easy to use, even in complex measurement scenarios. Fully wireless and highly versatile, it's perfect for locations with limited or no access to power.

Get the Most of 3D Scanning

DefinSight powers the KSCAN-E 3D scanner with its all-in-one metrology platform, enabling advanced 3D scanning and inspection. Its intuitive interface, high compatibility, and efficient data processing work seamlessly with the scanner.

Scan Anything, Anytime

KSCAN-E is robust, flexible and versatile, ideal for scanning small to large objects wherever you are. It allows for rapid data capture without compromising accuracy.

Large Parts: Adaptive photogrammetry system and infrared large-area scanning to enhance efficiency for measuring large parts.

Fine Details: Hyper-fine scanning with parallel blue lasers and resolution up to 0.010 mm, perfect for capturing intricate details of part.

Hole & Edge Inspection: Supports both laser and grayscale measurements. Ideal for measuring edges of stamping parts and irregular parts.

Complex Grooves:

Deep-hole scanning mode with a single laser line easily scans hard-to-measure areas.

Automated 3D Measurement

It can be paired with SCANOLGY's automated 3D inspection system, enabling effortless deployment and intelligent control to conduct automated batch inspections.



Technical Specifications

Type		KSCAN-E
Scan mode	Ultra-fast scanning	108 blue laser lines (Quad Cross Technology)
	Hyperfine scanning	17 blue parallel laser lines
	Large area scanning	38 infrared laser lines
	Deep hole scanning	1 extra blue laser line
	Hole & edge inspection	Smart edge inspection
	Photogrammetry	Adaptive photogrammetry
Accuracy ⁽¹⁾		0.020 mm
Volumetric accuracy ⁽¹⁾	Standard	0.015 mm + 0.030 mm/m
	Adaptive photogrammetry	0.015 mm + 0.015 mm/m
	Paired with MSCAN-L15	0.015 mm + 0.012 mm/m
Shape Error ⁽²⁾	Sphericity	0.030 mm
	Flatness	0.050 mm
Scanning rate up to		8,290,000 measurements/s
Scanning area up to		1440 mm × 1000 mm
Working distance	Large area scanning	600 mm – 1500 mm (Stand-off distance 900 mm)
	Ultra-fast scanning	200 mm – 700 mm (Stand-off distance 320 mm)
	Hyperfine scanning	150 mm – 300 mm (Stand-off distance 220 mm)
Object size		0.050 m – 8 m
Laser class		Class II (eye-safe)
Resolution up to		0.010 mm
Dimension		344 mm × 124 mm × 99 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 and ISO 10360-13 standard.

(2) Paired with 800-mm high-precision scale bar.

*Our company reserves the right to interpret and modify the parameters and images in this manual within the scope of law.



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