

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.

Deep Hole Measurement | No Blind Spots

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

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.

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

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

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

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.



Technical Specifications

Type		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.



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