

## Technical Parameter

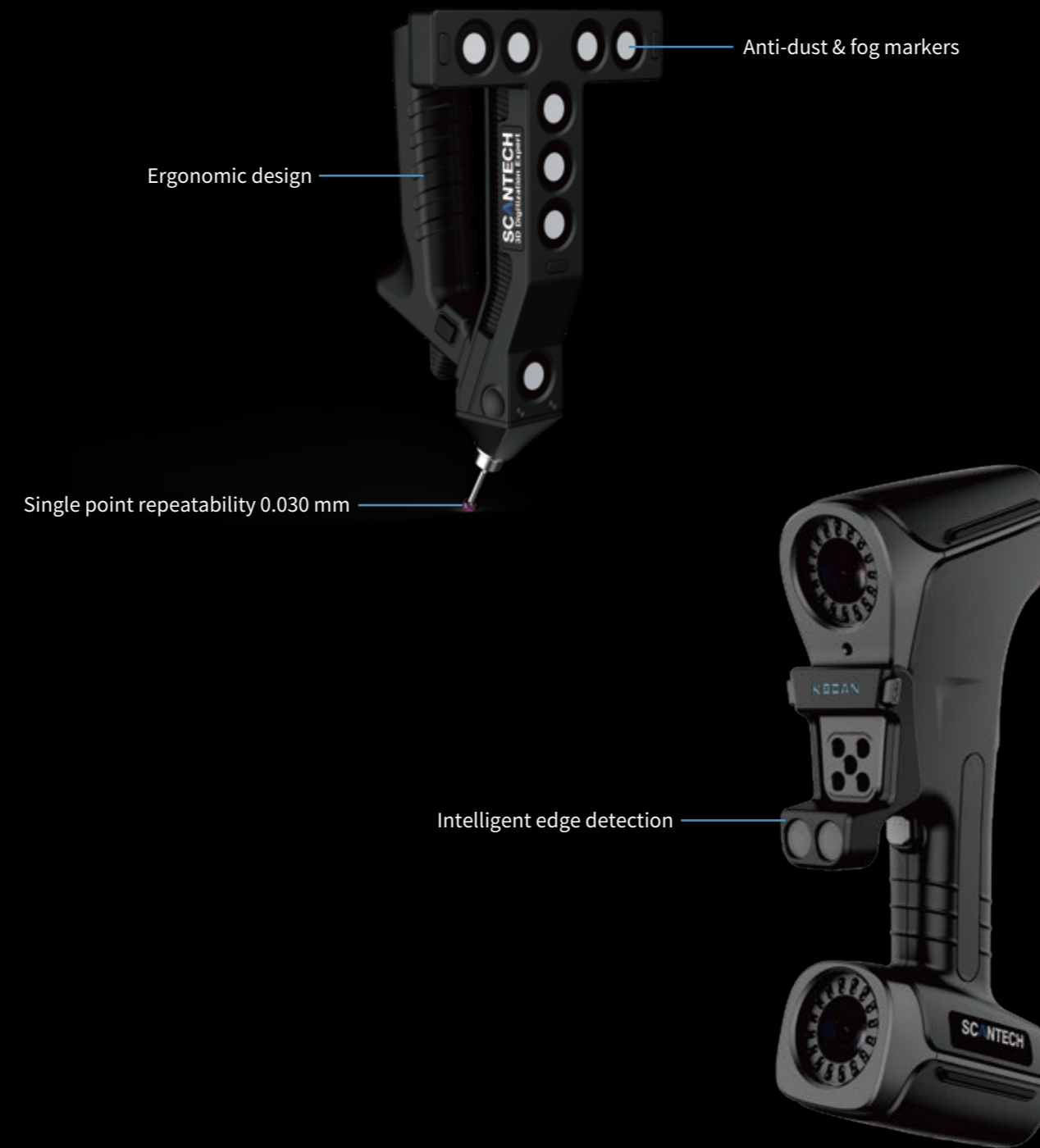
| Type                               |                            | KSCAN-Magic   | KSCAN-Magic II                 |
|------------------------------------|----------------------------|---|--------------------------------|
| Scan mode                          | Ultra-fast scanning        | 11 blue laser 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 <sup>(1)</sup>            |                            | 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 <sup>(2)</sup>     | 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 + 0.012 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°C~40°C  |                                |
| 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.



## KSCAN-MAGIC Composite 3D Scanner

Experience Diverse Ultimate  
From Metrology Measurement



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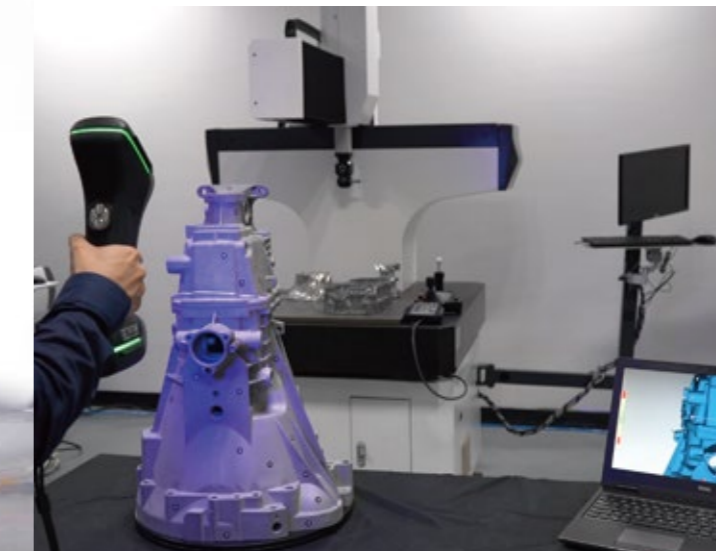
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# KSCAN - MAGIC

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.



## 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.

## 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.

