

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                           |                            | 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                    | 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°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 |                                |

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

**SCANTECH (HANGZHOU) CO., LTD**  
Building 12, No.998, West Wenyi Road, Yuhang District, Hangzhou,  
Zhejiang Province, China  
Tel: 0086-571-85852597 Fax: 0086-571-85370381  
E-mail : info@3d-scantech.com  
Website : www.3d-scantech.com

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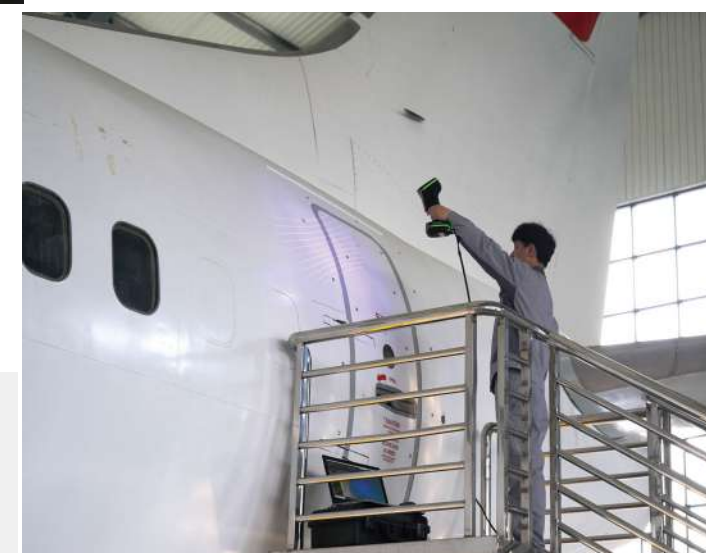
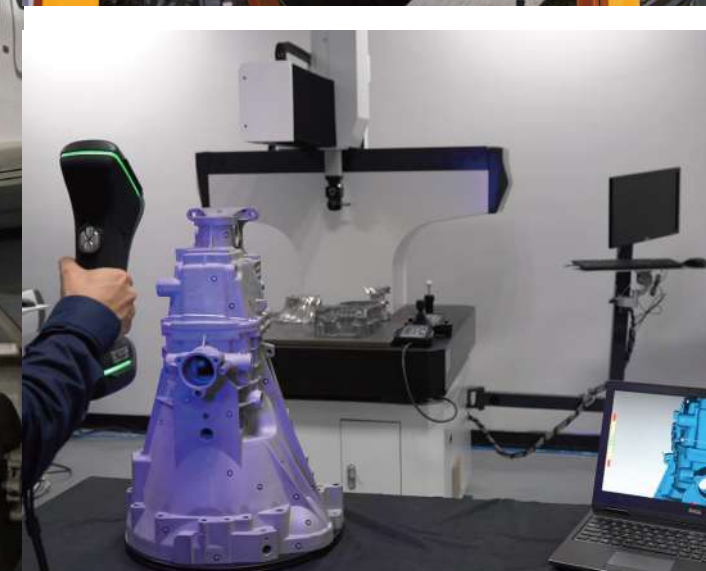
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# KSCAN - MAGIC

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.

