SCANTECH™

# KSCAN-MAGIC

## Composite 3D Scanner

Experience Diverse Ultimate

From Metrology Measurement

SCANTECH(HANGZHOU) CO., LTD

# KSCAN-MAGIC

KSCAN-Magiccomposite3Dscanner 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 crossesfast scanning, blue parallel laser fine scanning, single blue laser deep hole scanning, built-in photogrammetry system.

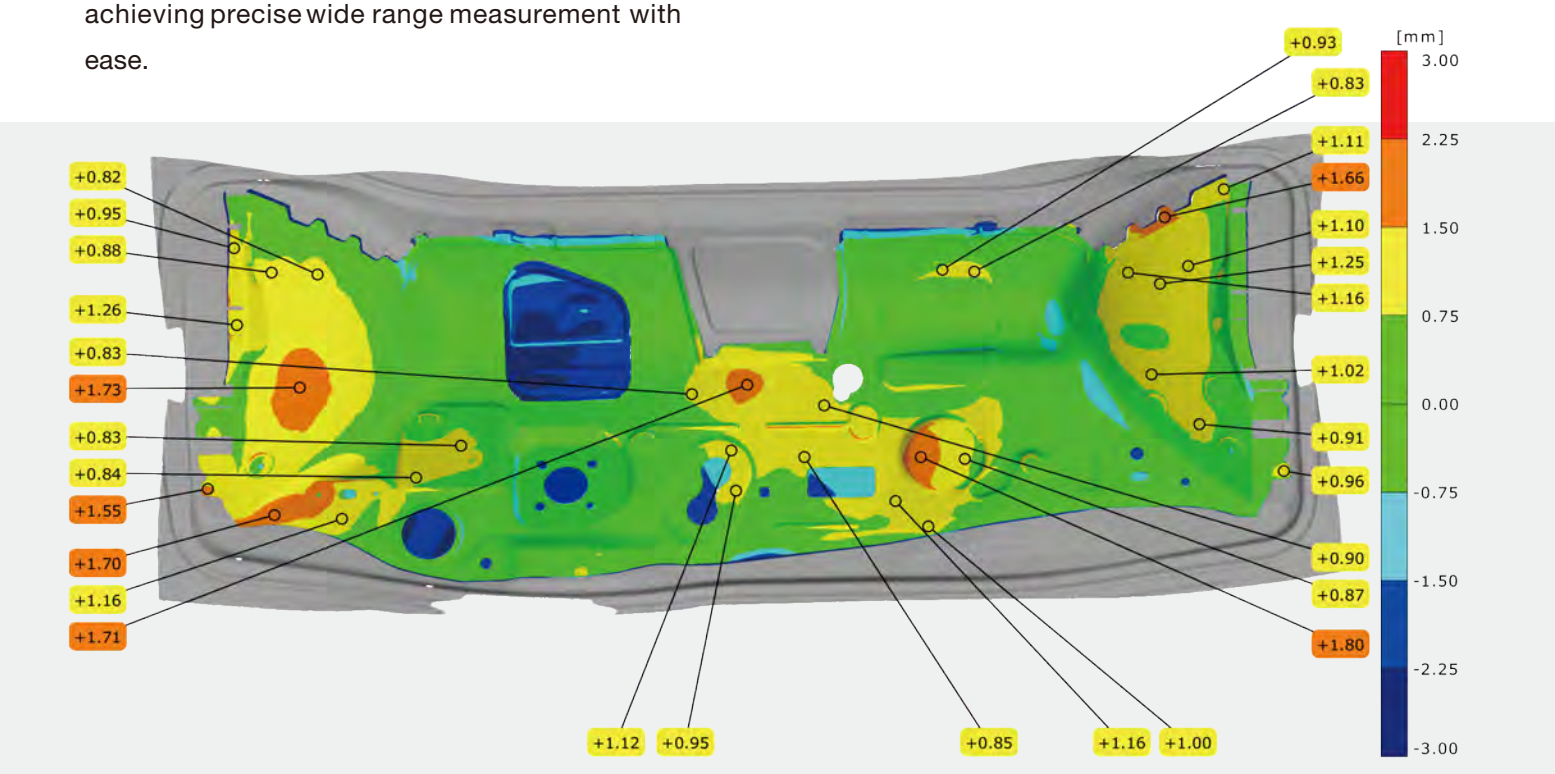
KSCAN-Magicserieshavea revolutionary breakthrough in performance. Its unparalleled scanning speed, accuracy, detail, scanning area, and depth of field greatly optimize the 3D measurement workflows and accelerate the product time-to-market. To obtain data on hard-to-reach or complex surfaces, KSCAN-Magicseriescan be equipped with portable CMMK-Probe, providing a comprehensive 3D digital solution for precision measurement.

## Innovative Infrared Laser

KSCAN-Magicinnovatively adopts infrared laser scanning technology in worldwide. Its ultimate scanning area reaches 1440 mm × 860 mm, achieving precise wide range measurement with ease.

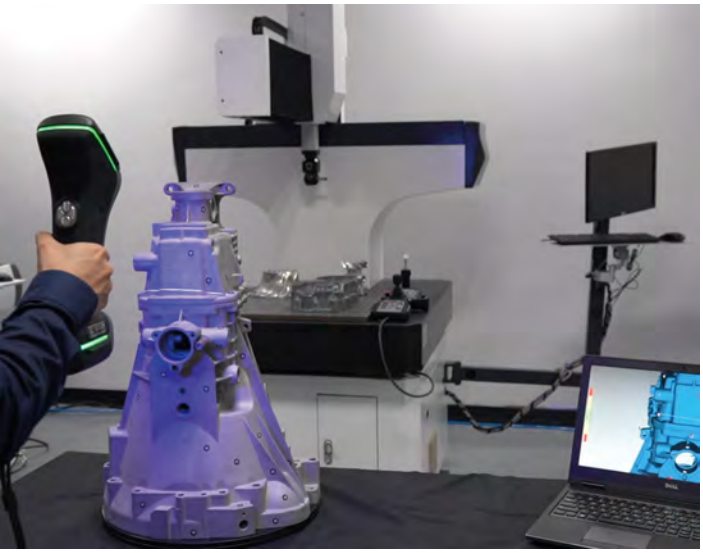
## Metrology-grade NDT Measuring

0.020 mm of scanning accuracy and 0.03 mm/m of volume accuracy; deliver ultra-high precision NDT for the aerospace industry.



## Extreme-clear Details

Under hyperfine scanning mode, KSCAN-Magic3Dscanner can accurately obtain complete data on the surface of complex objects, easily capturing every detail with resolution of 0.010mm.



## Single Laser Line Scanning

Single laser line scanning mode accurately and quickly captures 3D data of deep holes and dead angle positions.

## Effortless Effi ciency

With 41 laser lines, KSCAN-Magic3Dscanner delivers ultra-fast scanning rate of 1,350,000measurements/s. By flexibly switching the scanning modes, it satisfies different application needs, dramatically improving working effi ciency.

## No Fear of Harshness

KSCAN-Magicsupportssuper-high work adaptability in harsh environment; realistically restores the precise 3D data of reflective and black surface.

# Technical Parameter

| Type | | KSCAN-Magic | KSCAN-MagicII |
|---|---|---|---|
| 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 bule laser line | |
| Laser lines in total | | 41 | 45 |
| Accuracy | | 0.020 mm | |
| Scanning rate | | Up to 1,350,000measurements/s | Up to 1,650,000measurements/s |
| Scanning area | | Up to 1440mm × 860mm | |
| Photogrammetry system | Standard configuration | Built-in | |
| | Scanning area | 3760mm × 3150mm | |
| | Depth of field | 2500 mm | |
| Laser class | | CLASSII (eye-safe) | |
| Resolution | | 0.010 mm | |
| Volume accuracy | Work alone | 0.020 + 0.030 mm/m | |
| | Work with 1m reference bar | 0.020 mm/m | |
| | Work with MSCAN-L15 | 0.020 + 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 | | -10~40°C | |
| Interface mode | | USB 3.0 | |
| Patents | | CN204902790U, CN206905709U, CN107202554, CN204902785U, CN106403845, WO2018049843, CN106500627, WO2018072434, CN106500628 , WO2018072433, CN206132003U, CN104501740 , US10309770B2 | |

# Massive Functions

Built-in photogrammetry system, intelligent edge detection, contact probing and pipe measurement fulfill diverse application needs.

Anti-dust & fog markers

Ergonomic design

Single point repeatability 0.030 mm

Intelligent edge detection

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