

Technical Parameter

| Type | | AutoScan-KM II | AutoScan-KM | AutoScan-K20 |
|-----------------------------|----------------------------|---|--------------------------------|------------------------------|
| Scan mode | Ultra-fast scanning | 13 blue laser crosses | 11 blue laser crosses | 7 red laser crosses |
| | Hyperfine scanning | 7 blue parallel laser lines | | 5 blue parallel laser lines |
| | Large area scanning | 11 parallel infrared laser lines | | - |
| | Deep hole scanning | 1 extra blue laser line | | 1 extra red laser line |
| Laser lines in total | | 45 | 41 | 20 |
| Accuracy | | 0.020 mm | | |
| Scanning rate | | Up to 1,650,000 measurements/s | Up to 1,350,000 measurements/s | Up to 650,000 measurements/s |
| Scanning area | | Up to 1440 mm × 860 mm | | Up to 550 mm × 660 mm |
| Photogrammetry system | Standard configuration | Built-in | | |
| | Scanning area | 3760 mm × 3150mm | | 2500 mm × 3000mm |
| | Depth of field | 2500 mm | | |
| Laser class | | CLASS II (eye-safe) | | |
| Resolution | | 0.010 mm | | |
| Volumetric accuracy | Work alone | Up to 0.010 mm + 0.030 mm/m | | 0.020 mm + 0.035 mm/m |
| | Work with 1m reference bar | Up to 0.010 mm + 0.020 mm/m | | 0.020 mm + 0.020 mm/m |
| | Work with MSCAN-L15 | Up to 0.010 mm + 0.015 mm/m | | 0.020 mm + 0.015 mm/m |
| Depth of field | | 925 mm | | 620 mm |
| 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 | | 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 | | |

SCANTECH™

AUTOSCAN - K 3D System

Highly Safe and Effective Automatic Inspection System



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AutoScan-K series, an automatic 3D inspection system, can realize non-contact and non-destructive inspection using machine vision technology. While ensuring extra-high accuracy, it can effectively carry out online batch scanning and inspection. Featuring 24-hour constant operation, AutoScan-K 3D system helps enterprises reduce manufacturing costs, accelerate product time-to-market and increase return on investment.

Equipped with multiple working modes, AutoScan-K 3D system can adapt to the measurement in various industrial scenarios. Meanwhile, based on cutting-edge machine vision algorithms, it can precisely control the movements of the robot, thus realizing efficient and automatic batch inspection.

Automatic Whole-process Inspection

Without human involvement, AutoScan-K can automatically conduct batch 3D scanning and inspection for data comparison, and generate inspection reports, after scanning routes and measurement process are set for different products.

Safe and Reliable NDT

Based on automated optical measurement technology, AutoScan-K truly achieves non-contact and non-destructive intelligent testing, which is safe, reliable, and applicable in different workshop environment. Its industrial intelligent rotary tables make efficient and blind-angle-free inspection possible.



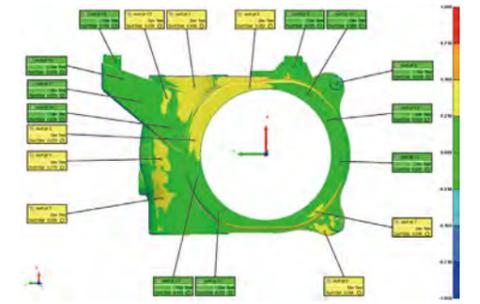
Precise and Effective Measurement

AutoScan-K can inspect workpieces with different sizes, weights and pieces made from different materials. It can generate as much as 45 laser lines for high density data scanning, with the speed of up to 1,650,000 per second. It enables precise 3D inspection in harsh industrial environment with resolution up to 0.010 mm and volume accuracy up to 0.030 mm/m.



Secondary Development

The secondary development allows operators to control the system by calling the SDK interface.

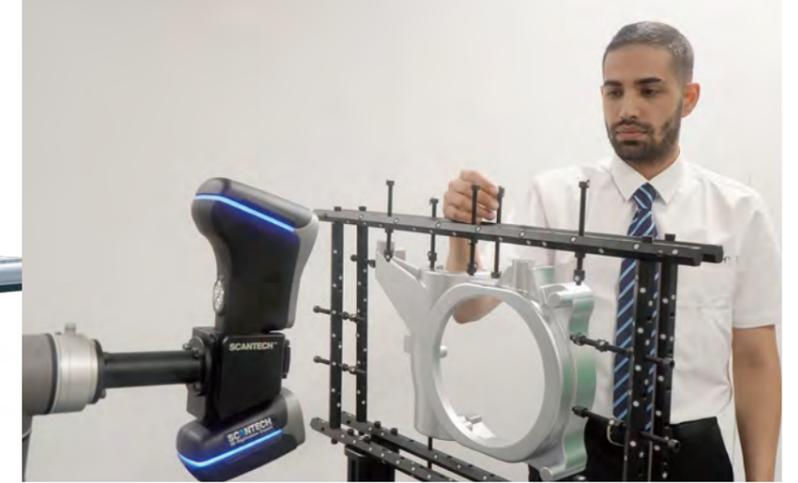


Personalized Operation

Multiple measurement modes are offered depending on the characteristics of different workpieces. To meet different inspection requirements, the workpieces can be clamped from multiple angles to set inspection routes.

Intelligent Rotary Table

The industrial intelligent and automatic rotary tables adapt to various fixtures and clamps. Without the need to attach markers on the object, quick and reliable clamping can be achieved to greatly simplify the preparation workflows before 3D scanning.



Integrated Design

The entire automatic 3D inspection system adopts integrated design, hence it enables high-accuracy batch inspection in workshops.

