

AtlaScan Metrology-Grade Handheld Laser Scanning System

MULTI-MODE, VERSATILE METROLOGY-GRADE 3D SCANNER

PROTABLE BLUE LASER 3D SCANNER SERIES

Revolutionary Product Powerful Functionality Model

tlaScan

ZG TECHNOLOGY CO., LTD.

ABOUT ZG

ZG Technology is a professional 3D scanner solution provider, which is an expert in research and developing 3D technology. ZG portfolio includes metrology-grade portable 3D laser scanner, optical tracking 3D scanner, smart in-line inspection system, smart full-color 3D scanner and photogrammetry system, which can widely meet different customer requirements, such as quality inspection, reverse engineering, VR&AR etc.

TECHNICAL TEAM

ZG technology R&D team has 7 doctors and 15 masters, all are the experts in photogrammetry and 3D measurements. ZG Technology is based on independent Intellectual Property Right, cutting edge technologies and achievements from Wuhan University, which gets more than 130 national patents and software copyrights, and has received more than 20 national and ministerial-level qualification awards.

A Professional 3D Scanner Solution Provider in the World **AWARDS & CERTIFICATES** Society for # CAG 如识产权管理体条认证证书 测绘科技进步类 证书 四日 (*) …市社 March 15, 10 0 0 3551 2年+2月東京正有展会市 現量管理体系认证证书 高新技术企业 3551光谷人才计划 成汉中横自动化林 荣誉证书 ARTICLES GATHER STOTES OF AN HARRING DI, BERRICE, LINCO, SALANDA DI, BERRICE, LINCO, SALANDA 机态元 🗼 胡忠元 📻 IAF CVAS IAF CVAS 01



AtlaScan Multi-mode, Versatile Metrology-Grade 3D Scanner

AtlaScan 3D laser scanner is a ZG's revolutionary product. In addition to all the advantages of similar products on the market, the most outstanding feature is that ZG has greatly upgraded the hardware and software performance, empowering AtlaScan a large scanning range and super fast scanning efficiency, high scanning accuracy and resolution, and wide material adaptability which helps users to complete work quickly and well in the face of various complex application scenarios.









Powerful Measurement Functionality

- The first hole flash capture function 3D laser scanner in the world;
- Easy hole measurement with innovative hole measurement accessories;
- Rich and powerful measurement and inspection function to create different features within ZG own software.

Highly Scanning Efficiency

- Larger scanning area up to 600×550mm;
- · Three scanning modes with total 41 laser lines;
- More efficiency, scanning speed up to 3,000,000 measurements/s.

Amazing Adaptability

- Intelligent guidance module to handle different surface easily;
 Smart HDR under dual exposure modes to scan black and white at the same time;
- · Higher volumetric accuracy to enhance the adaptability.

Ultra-fine Details Scanning

- Mesh resolution up to 0.01mm;
- · Powerful mesh optimization to present true details;
- · Local resolution adjustment to offer more details with optimized data size;
- · 14 laser liners for quick ultra-fine details scanning;
- · Rendering and details optimization display at real time.

TECHNICAL SPECIFICATIONS

Model Measurement Rate-Standard Mode Measurement Rate-Fine Mode Scanning Area Laser Source Class II (Eye Safe) Resolution Accuracy-Standard Mode Accuracy-Fine Mode Volumetric Accuracy-Standard Mode Volumetric Accuracy+Photoshot Hole Accuracy Hole Volumetric Accuracy Hole Volumetric Accuracy+Photoshot Stand-off Distance-Standard Mode Stand-off Distance-Fine Mode Depth of Field-Standard Mode Depth of Field-Fine Mode Depth of Field@Furthest Range Weight Dimensions Connection Standard Working Temperature Working Humidity (Non-condensing) **Export Format** Compatible Softwares

Patents

CN106228603B CN212539085U CN211046994U

26 Blue Laser Lines To improve scanning efficiency dramatically

Extra *Single* Blue Laser Line To scan the hard-to-reach place well

Extra **14** Blue Laser Lines To feature more details

Hole Flash Capture Technology To instant capture hole data accurately



Stand-off Distance

Great Ergonomic Design Offers wonderful user experience

Interface USB 3.0 Stable connection and efficient transmission

FEATURES

AtlaScan

3,000,000 measurements/s

1,680,000 measurements/s

Up to 600×550mm

26 blue laser lines+extra single blue laser line+extra 14 blue laser lines

Up to 0.01mm

Up to 0.02mm

Up to 0.01mm

0.015mm+0.03mm/m

0.015mm+0.015mm/m

Up to 0.02mm

0.015mm+0.03mm/m

0.015mm+0.015mm/m

325mm

200mm

450mm

200mm

550mm

1kg

295×135×75mm

USB 3.0

-20~40°C

10%~90%

.stl, .ply, .obj, .txt, .xyz, .asc. etc.customizable

3D Systems (Geomagic Solutions), InnovMetric Software (PolyWorks), Dassault Systems (CATIA V5 and SolidWorks), PTC (Pro/ ENGINEER), Autodesk (Inventor, Alias, 3ds Max, Maya, Softimage), Siemens (NX and Solid Edge) etc.

CN106228603B、CN208174805U、CN109099839B、CN110345866B、CN111486801B

CN212539085U、CN106767895B、CN106204544B、CN304321958S、CN108038878B

CN211046994U、CN306620676U、CN214224013U、CN214924384U、CN215572695U



APPLICATION CASE

AEROSPACE

rapid prototyping, quality control/inspection, (MRO) wear and tear analysis, aerodynamics, stress analysis, OEM and parts recycling, reverse engineering



AUTOMOTIVE

reverse engineering, competitive product analysis, automotive repacking, interior customization, modeling and design, finite element analysis(FEA)



HEAVY INDUSTRY

quality control, reverse engineering MRO and wear analysis, machanical/tooling design and modification, OEM and parts recycling, tooling and mold modification



MOLD

virtual assembly, reverse engineering, quality control, wear and tear analysis, custom repairs and modification





CASTING PARTS

rough part quality control and inspection, machining processing design



CONSUMABLE

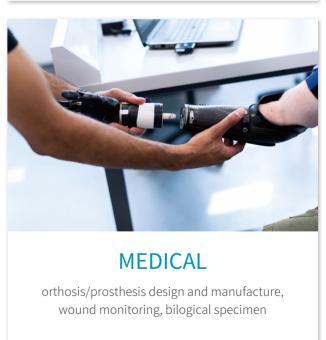
modeling and design inspection, reverse engineering, tooling design, VR&AR





CULTURAL

cultural relic art sculpture



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