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

ZG TECHNOLOGY CO., LTD.

ABOUT ZG

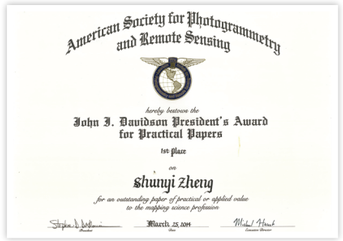
ZG Technology is a professional 3D scanner solution provider, which is an expert in research and developing 3D technology. ZG portfolio includes metrology-grade portable 3D laser scanner, optical tracking 3D scanner, smart in-line inspection system, smart full-color 3D scanner and photogrammetry system,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

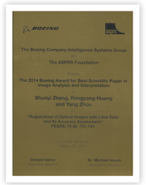
TECHNICAL TEAM

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

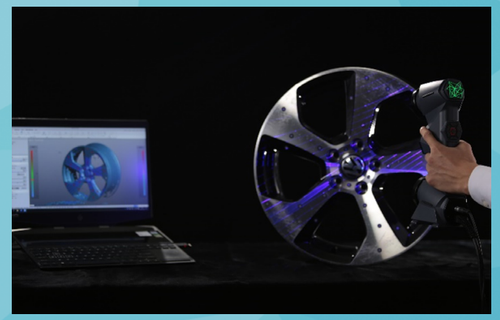
AWARDS & CERTIFICATES





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.

FEATURES

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
Color indicator, maximize scanning performance

Multi-function Buttons
Quick and convenient interactive to frequent used functionalities

Great Ergonomic Design
Offers wonderful user experience

Interface USB 3.0
Stable connection and efficient transmission

TECHNICAL SPECIFICATIONS

Model	AtlaScan
Measurement Rate-Standard Mode	3,000,000 measurements/s
Measurement Rate-Fine Mode	1,680,000 measurements/s
Scanning Area	Up to 600×550mm
Laser Source Class II (Eye Safe)	26 blue laser lines+extra single blue laser line+extra 14 blue laser lines
Resolution	Up to 0.01mm
Accuracy-Standard Mode	Up to 0.02mm
Accuracy-Fine Mode	Up to 0.01mm
Volumetric Accuracy-Standard Mode	0.015mm+0.03mm/m
Volumetric Accuracy+Photoshot	0.015mm+0.015mm/m
Hole Accuracy	Up to 0.02mm
Hole Volumetric Accuracy	0.015mm+0.03mm/m
Hole Volumetric Accuracy+Photoshot	0.015mm+0.015mm/m
Stand-off Distance-Standard Mode	325mm
Stand-off Distance-Fine Mode	200mm
Depth of Field-Standard Mode	450mm
Depth of Field-Fine Mode	200mm
Depth of Field@Furthest Range	550mm
Weight	1kg
Dimensions	295×135×75mm
Connection Standard	USB 3.0
Working Temperature	-10~40°C
Working Humidity (Non-condensing)	10%~90%
Export Format	.stl, .ply, .obj, .txt, .xyz, .asc. etc.customizable
Compatible Softwares	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.
Patents	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

More Applications: Education | Industrial Design | Museology | VR · AR

CASTING PARTS

rough part quality control and inspection, machining processing design

CULTURAL

cultural relic
art
sculpture

CONSUMABLE

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

MEDICAL

orthosis/prosthesis design and manufacture, wound monitoring, bilogical specimen

For more information please get from ZG official web: www.3d-zg.com

ZG Technology Co., Ltd.

Website: www.3d-zg.com
Tell: +86 27 87741893
Hot line: 400-027-7181
Email: overseas@3d-zg.com
Add: Building No.1, Dingxin Industrial Park, No.18,
Jiayuan Road, Hongshan District, Wuhan, China.