3D SCANNING
SOLUTIONS

PORTABLE BLUE LASER 3D SCANNER SERIES

Revolutionary Product With Powerful Functionality

3D SCANNING SOLUTIONS

3D Scanner Manufacturer
ZG Technology Co., Ltd.

About ZG

ZG Technology is a professional 3D scanner solution provider, who are experts 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-colour 3D scanner and photogrammetry system, which can meet a wide variety of 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 experts in photogrammetry and 3D measurements. ZG Technology is based on independent Intellectual Property Right, cutting edge technologies and achievements from Wuhan University, which has more than 50 national patents and software copyrights, and has received more than 20 national and ministerial-level qualification awards.

About 3D Scanning Solutions

3D Scanning Solutions is a service provider which is owned by M.J.M Design & Draughting Ltd. M.J.M was formed in 1997 as a Design consultancy providing support services to sectors ranging from white goods through to UK Defence & Formula 1.

For more information about the parent company please; visit www.mjmdesigns.co.uk

A Professional Global 3D Scanner Solution Provider

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

The Atlascan 3D laser scanner is a new generation of revolutionary products from ZG Technology.

In addition to all the advantages of similar products on the market, the most outstanding features are that ZG has upgraded the hardware and software performance, giving the Atlascan a large scanning range with impressive scanning speed and efficiency.

Capabilities also include high scanning accuracy and resolution with excellent material scanning versatility. This enables the user to complete tasks quickly and efficiently without compromising scanning data or accuracy.

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's own software;

High Scanning Efficiency

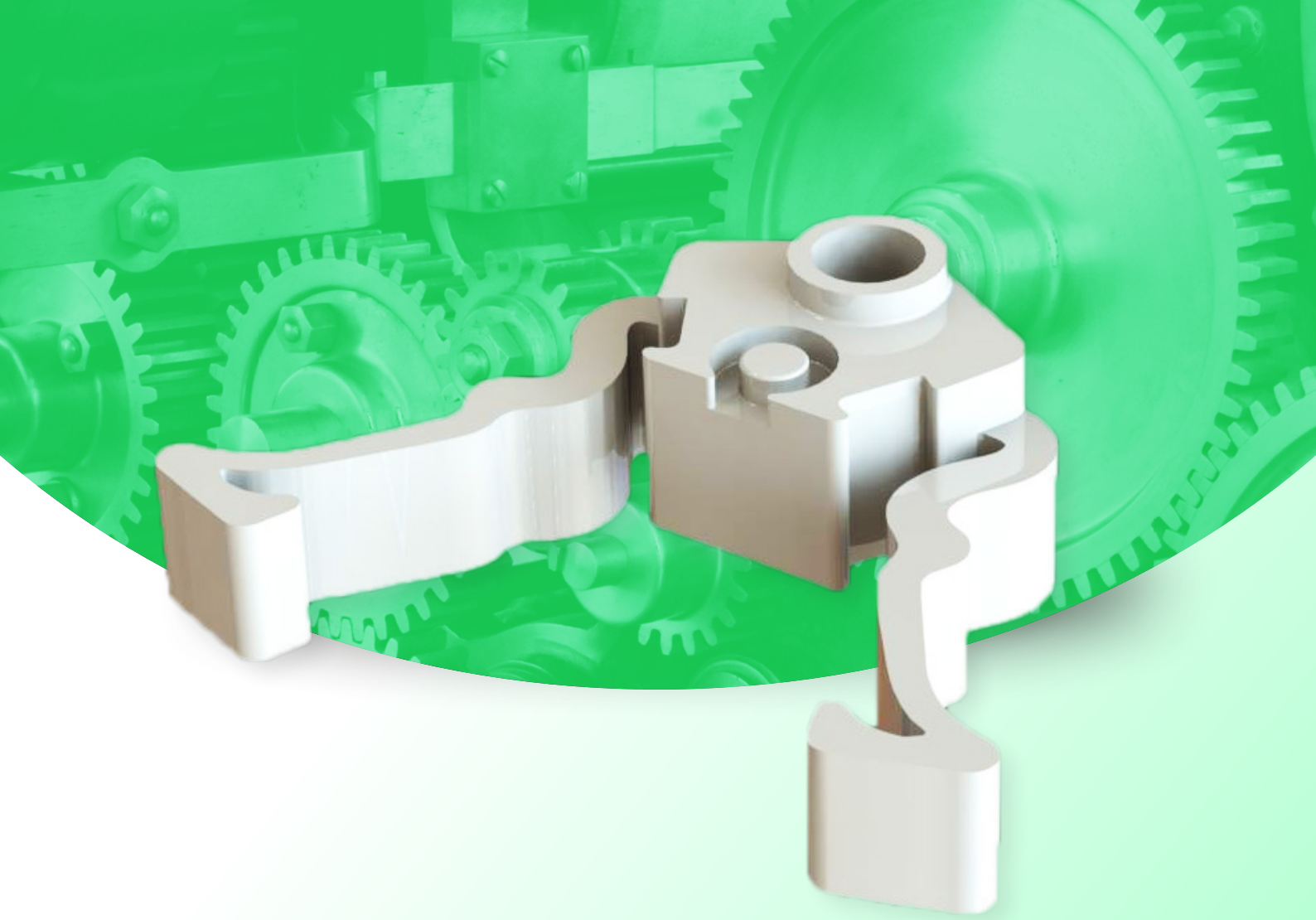
- Larger scanning area up to 600×550mm;
- Three scanning with a total of 41 laser lines;
- More efficiency scanning speed up to 1,600,000 measurements/s;

Excellent Adaptability

- Intelligent guidance module to handle different surfaces 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 Detail 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 in real time.



Features

26 Laser Lines
To improve scanning efficiency dramatically.

Extra *Single* Laser Line
To assist in capturing difficult areas.

Extra *14* Laser Lines
To capture more detail.

Hole Flash Capture Technology
To instantly capture hole data accurately.

Stand-off Distance
Colour indicator to maximise scanning performance.

Multi-function Buttons
Enabling quick convenient interactive, functionality and versatility.

Great Ergonomic Design
Offers great user experience.

Interface USB 3.0
Stable connection and efficient transmission.

Technical Specifications

MODEL	AtlaScan	
SCAN MODE	Standard Mode	Fine Mode
MEASUREMENT RATE	1,600,000 measurements/s	900,000 measurements/s
SCANNING AREA	up to 600×550mm	
LIGHT SOURCE	26 blue laser lines + extra single blue laser line + extra 14 blue laser lines	
LASER CLASS	Class II (eye-safe)	
RESOLUTION	up to 0.01mm	
ACCURACY	up to 0.02mm	up to 0.01mm
VOLUMETRIC ACCURACY	0.02+0.03mm/m	-
VOLUMETRIC ACCURACY +PhotoShot	0.02+0.015mm/m	-
HOLE ACCURACY	up to 0.02mm	
HOLE VOLUMETRIC ACCURACY	0.02+0.03mm/m	
HOLE VOLUMETRIC ACCURACY +PhotoShot	0.02+0.015mm/m	
STAND-OFF DISTANCE	350mm	200mm
DEPTH OF FIELD	450mm	200mm
DEPTH OF FIELD @FURTHEST RANGE	550mm	
SUPER-REFERENCE (OPTIONAL)	support	
PORTABLE CMM (OPTIONAL)	support	
WEIGHT	1.0kg	
DIMENSIONS (LxWxH)	80×147×310mm	

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 customisation, modeling and design, finite element analysis(FEA)

Heavy Industry

Quality control, reverse engineering MRO and wear analysis, mechanical/ 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

Additional Aplications: Education | Industrial Design | Museology | VR·AR

Application Case

Casting Parts

Rough part quality control and inspection, machining processing design

Cultural

Cultural relic, Art, Sculpture and Archaeology

Consumable

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

Medical

Orthosis/prosthesis design and manufacture, wound monitoring, biological specimen

For more information please visit our website www.3dscanning-solutions.co.uk

We also provide 3D scanning & Reverse Engineering Services.

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