

SMART HANDHELD 3D LASER SCANNERS



ALTAIRSCAN



RIGELSCAN



SMART FLASH 3D LASER SCANNER

AltairScan

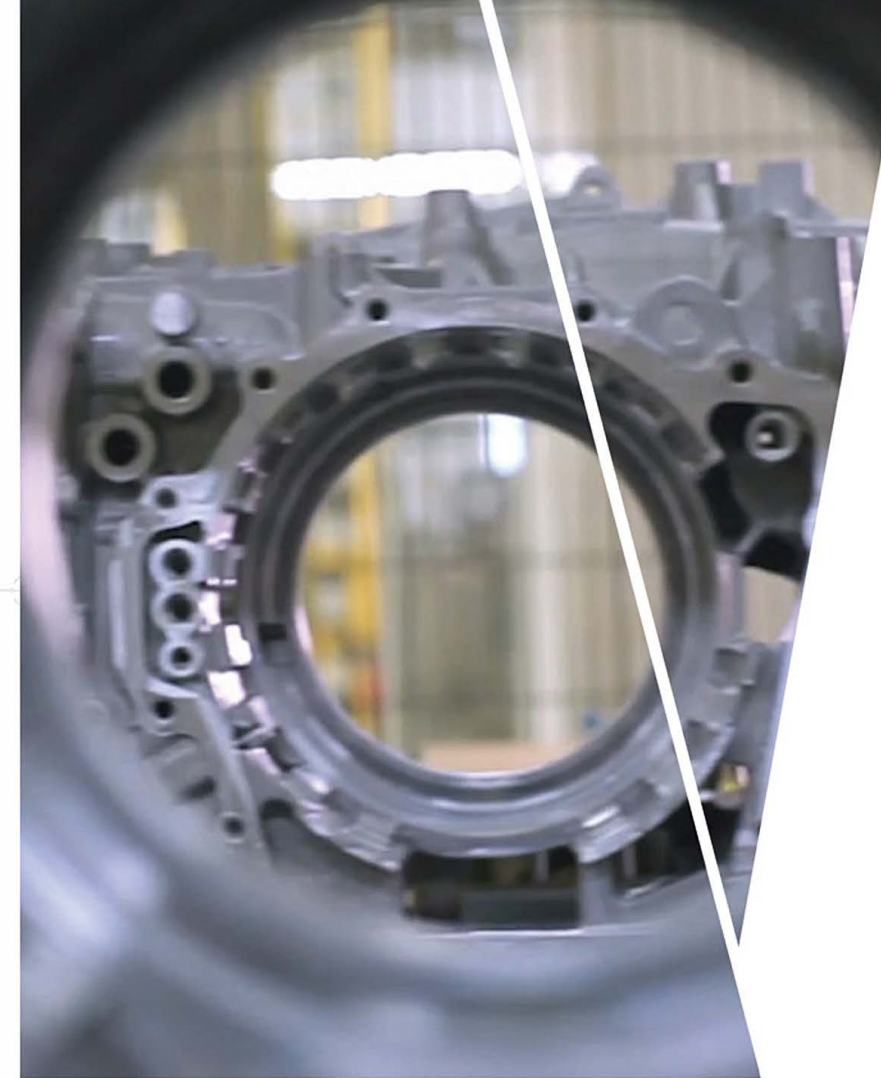
AltairScan Smart Flash 3D Laser Scanner series, is a revolutionary measurement system developed independently by ZG(international patent). AltairScan can extract hole center coordinates and diameter at an instant, with an accuracy up to 0.02mm, certificated by National Institute of Metrology.



MULTIPLE MIXED REFLECTION TECHNOLOGY:

- ✓ Instantly capture hole data
- ✓ Simultaneously capture surface mesh with circle boundary, to improve accuracy
- ✓ Smart, simple and fast, reliable inspection result

SPECIFICATION:	AltairScan		AltairScan Elite	
	Standard Mode	Fine Mode	Standard Mode	Fine Mode
MEASUREMENT RATE	205,000 measurements/s	320,000 measurements/s	480,000 measurements/s	320,000 measurements/s
SCANNING AREA	up to 225×250mm		up to 275×250mm	
BLUE LASER LIGHT SOURCE	6 laser lines (+extra 1 laser line ,+extra 5 parallel laser lines)		14 laser lines (+extra 1 laser line ,+extra 5 parallel laser lines)	
LASER CLASS	CLASS II (eye-safe)			
RESOLUTION	0.05mm	0.03mm	0.04mm	0.02mm
ACCURACY	up to 0.03mm	up to 0.02mm	up to 0.02mm	up to 0.01mm
VOLUMETRIC ACCURACY	0.03+0.06mm/m	—	0.02+0.06mm/m	—
VOLUMETRIC ACCURACY (COMBINED WITH PHOTOSHOT)	0.03+0.025mm/m	—	0.02+0.025mm/m	—
HOLE ACCURACY	up to 0.03mm			
HOLE VOLUMETRIC ACCURACY	0.03+0.06mm/m			
HOLE VOLUMETRIC ACCURACY (COMBINED WITH PHOTOSHOT)	0.03+0.025mm/m			
STAND-OFF DISTANCE	300mm	150mm	300mm	150mm
DEPTH OF FIELD	250mm	100mm	250mm	100mm



- > HOLE FLASH CAPTURE TECHNOLOGY
- > DYNAMIC SCANNING TECHNOLOGY
- > FINE DETAIL SCAN
- > ULTRA HIGH ACCURACY
- > BLUE LASER
- > WIRELESS

AltairScan can efficiently capture the holes on surface of the parts, which can be widely used for quality control in automotive industry, aircraft fuselage and parts, molds as well as in other industries. AltairScan apply blue laser scanning technology for a fine scanning of structures. In the mean time, AltairScan can be equipped with wireless module, for more easy and flexible scanning experience of large parts. Thus, AltairScan provides the perfect 3D measurement solution for all industries.



SMART HANDHELD 3D BLUE LASER SCANNER


RigelScan





INTRODUCTION:

The RigelScan series handheld blue laser 3D scanner, is a new metrology system launched by ZG Technology Co., Ltd. RigelScan can capture fine features of the parts with an accuracy up to 0.02mm, certified by National Institute of Metrology. RigelScan applies blue laser scanning technology for fine scanning of structures. In the mean time, RigelScan can be equipped with wireless module, for more easy and flexible scanning experience of large parts. Thus, RigelScan provides the perfect 3D measurement solution for all industries.


FEATURES:


- 

ULTRA HIGH ACCURACY
Up to 0.02mm
- 

FINE DETAIL SCANNING
Capture perfect 3D data of precision parts
- 

DYNAMIC SCANNING
Freely move parts without affect accuracy
- 

GOOD ADAPTABILITY
Easily capture data of shiny or reflective surface
- 

USER-FRIENDLY
Easy operation, within half hour can master the operation
- 

WIRELESS CONNECTION
Easy scanning for large parts Flexibility



SPECIFICATION:	RigelScan		RigelScan Elite	
	Standard Mode	Fine Mode	Standard Mode	Fine Mode
MEASUREMENT RATE	205,000 measurements/s	320,000 measurements/s	480,000 measurements/s	320,000 measurements/s
SCANNING AREA	up to 225×250mm		up to 275×250mm	
BLUE LASER LIGHT SOURCE	6 laser lines (+extra 1 laser line ,+extra 5 parallel laser lines)		14 laser lines (+extra 1 laser line ,+extra 5 parallel laser lines)	
LASER CLASS	CLASS II (eye-safe)			
RESOLUTION	0.05mm	0.03mm	0.04mm	0.02mm
ACCURACY	up to 0.03mm	up to 0.02mm	up to 0.02mm	up to 0.01mm
VOLUMETRIC ACCURACY	0.03+0.06mm/m	—	0.02+0.06mm/m	—
VOLUMETRIC ACCURACY (COMBINED WITH PHOTOSHOT)	0.03+0.025mm/m	—	0.02+0.025mm/m	—
STAND-OFF DISTANCE	300mm	150mm	300mm	150mm
DEPTH OF FIELD	250mm	100mm	250mm	100mm



APPLICATION



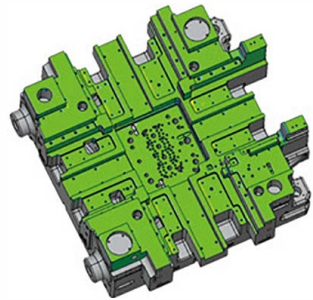
AEROSPACE

Rapid prototyping
MRO and damage assessment
Aerodynamics, stress analysis
Parts Inspection & adjustment



AUTOMOTIVE

Competitive product analysis
Car modification
Custom interior design
Modeling and design
QC and Spare parts measurement
Simulation and Finite Element Analysis (FEA)



MOLD

Virtual assembly
Reverse engineering
Quality control and inspection
Wear analysis and repair
Fixture design and adjustment



NEW ENERGY

Hole assembly
Pre-processing component evaluation
Component to CAD inspection
Supplier quality control
Tool/robot path programming

■ EDUCATION AND RESEARCH

■ REVERSE ENGINEERING

■ CULTURAL RELIC & FURNITURE

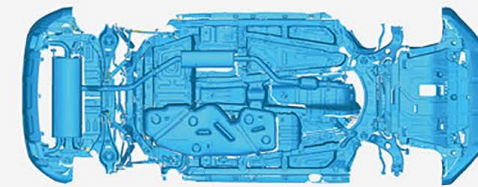
■ HEALTHCARE

■ INDUSTRIAL DESIGN

■ VR · AR



>>SLUDGE MODEL DATA



>>CAR CHASSIS DATA



>>CAR INTERIOR DATA



>>SLUDGE MODEL SCANNING



>>CAR CHASSIS SCANNING



>>CAR INTERIOR SCANNING



3D CAD/CAM TECHNOLOGY Ltd. - TURKIYE | A 3D SCANNER & 3D PRINTER Company
(Since 1993) Yalı yolu sok.Ismail Ergin is merkezi No;52/A 8- 9 Ustbostancı | 34744
Istanbul | TURKEY | +9 0216 3803948 | +9 0216 3803288 | Fax : +9 216 3800118

ZG Technology Co., Ltd.

Address: BLDG A17-3,NO.555,WenHua Ave,Hongshan District,Wuhan,TW | P.C.: 430061

