



HyperScan Plus

Smart Optical Tracking
3D Scanner

A PROFESSIONAL 3D SCANNER SOLUTION PROVIDER IN THE WORLD



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HyperScan

Smart Optical Tracking 3D Scanner

The powerful optical tracking scanning system, HyperScan Series, can scan the whole part completely without placing any markers at all, which is insensitive to the environment factors like vibration and noise etc in the workshop.

With faster scanning speed and high precision, it can accelerate 3D scanning process specially for the field of automotive, heavy industry, casting mold and other medium-large size part.



Product List



HyperScan 3D Scanner

High scanning speed and accuracy
To support global scanning and handy scanning mode



ZG-Track Optical Tracker

Highly integrated dual-camera carbon-fiber structure
To track the coordination of HyperScan 3D Scanner and insensitive to environment factors



ZG-Probe Portable CMM

Touch-measuring probe (optional)
To work with 3D Scanner flexibly per different job requirements

34 Blue Laser Lines

To improve scanning efficiency dramatically

Extra 7 Parallel Blue Laser Lines

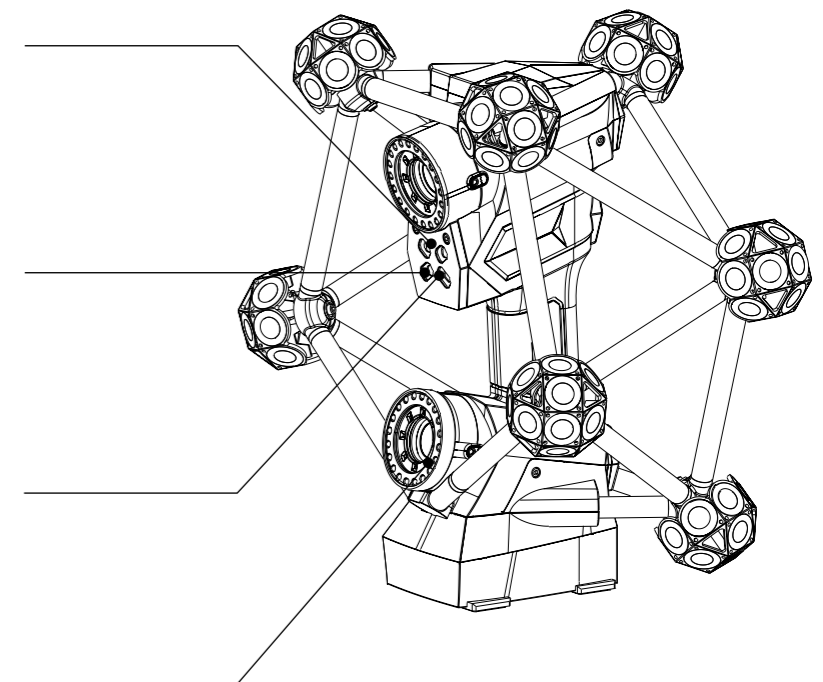
To feature more details

Extra Single Blue Laser Lines

To scan the hard-to-reach place well

Hole Flash Capture Technology

To instant capture hole data accurately



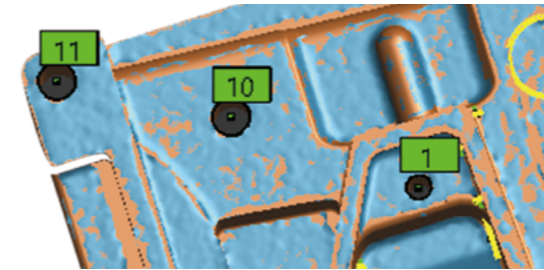


Product Feature



Blue Laser Technology

To adopt blue laser technology to improve fine-details scanning capacity and material adaptability dramatically.



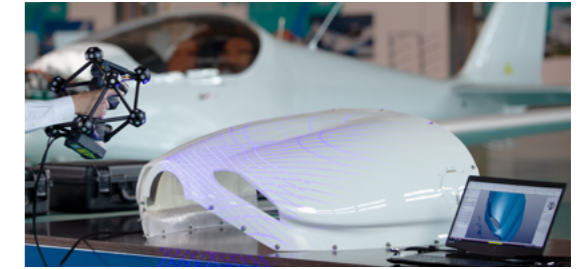
Hole Flash Capture Technology

To equip our patented Hole Flash Capture technology into dynamic tracker scanning system. In order to improve adaptability and operation experience, we innovate the hole measurement accessories and integrate the function of automatic CAD alignment & RPS alignment in our software.



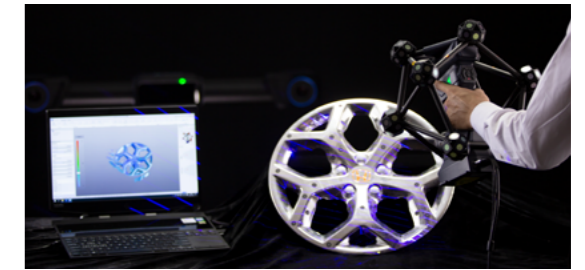
Ultra Fine-Details Scanning

7 parallel blue laser lines can capture the details of product clearly, which greatly improves precision of the scan data.



Faster 3D Scanning Speed

With hardware updates, standard scanning speed up to 2,900,000 measurements/s, Fine details scanning speed up to 1,200,000 measurements/s.



Hybrid Scanning Mode

HyperScan series supports global scanning and handy scanning mode under the same coordination, and the dual scanning mode can be switched real-time by Intelligent interactive system, which is more adaptable to large and complex workpiece scanning.



Multi-tracker Scanning Solution

Multiple trackers with single scanner to extend measurement volume dramatically without any leapfrogs. Multiple trackers with multiple scanners to increase the scanning efficiency dramatically and satisfy offline measurement requirements perfectly.

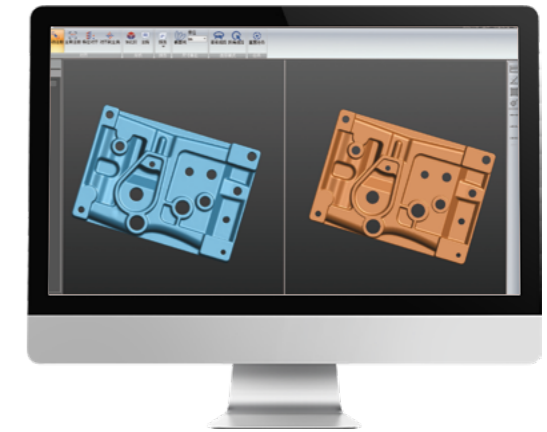


Software Feature



Instant Mesh and Local Resolution

To improve quality of scan data and details, while it does reduce the size of scan data & processing time and improve working efficiency dramatically.



Built-in Measurement Toolbox

Built-in measurement toolbox support various dimensions and features measurements, also provide 3D comparison, data annotation and inspection report generation.



Multi-System Collaborative Technology

The multi-system collaborative technology can improve the working efficiency dramatically especially for large part automated scanning solution.



Intelligent Interactive System

Simple operation with built-in interactive buttons in scanner to choose scanning mode, calibrate and process scan data by simple buttons operations.



HyperScan Series Wireless Battery Module

ZG FreeBox-S and ZG FreeBox-T are wireless battery modules for HyperScan series scanners in ZG Technology, which matches for HyperScan 3D Scanner and ZG-Track respectively. ZG FreeBox wireless battery modules adopts WIFI 5G technology to realize the wireless transmission and process of scan data, which completely cuts the traditional wired cable connection and enhance the stability and portability, especially suitable for large-scale, long-distance scanning and outdoor or complex environments.

Working Mode

Wireless Working Mode



HyperScan+ZG FreeBox-S



ZG-Track+ZG FreeBox-T

Wired Working Mode








HyperScan



ZG-Track

Feature

-  Super-long scanning time, continuous working time up to 3 hours.
-  Wired connection is kept for more complex working environments.
-  Highly compatible with all HyperScan Series.

-  The working status is displayed in real time, and the operator can always know status of equipment.
-  ZG FreeBox series is designed as module accessory, the upgrade can be done by simple installation.

ITEM		HyperScan DX-B	HyperScan Plus
Measurement Rate	Standard Scan Mode	2,200,000 measurements/s	2,900,000 measurements/s
	Fine Scan Mode	1,200,000 measurements/s	1,200,000 measurements/s
Scanning Area		Up to 550×500mm	Up to 600×500mm
Light Source		26 Blue Laser Lines+Extra Single Laser Line+7 Parallel Blue Laser Lines	34 Blue Laser Lines+Extra Single Laser Line+7 Parallel Blue Laser Lines
Laser Class		Class II (Eye safe)	
Resolution		Up to 0.02 mm	
Accuracy		Up to 0.025mm	
Stand-off distance		350mm	
Depth of field		400mm	
Wireless Battery Module		Scanner & Tracker are Supported	
Part Size Range (Recommended)		0.1~8m	
Weight		1.5kg	

Self-Positioning System (With Tracker)

Volumetric Accuracy	9.6 M ³ (3.5m)	0.064mm	0.060mm
	17.6 M ³ (4.2m)	0.078mm	0.075mm
Volumetric Accuracy (Combined with PhotoShot)		0.044+0.015mm/m	

Markers Positioning System (Without Tracker)

Scan Mode	Volumetric Accuracy	0.02+0.035mm/m	0.02+0.03mm/m
	Volumetric Accuracy (Combined with PhotoShot)	0.02+0.015mm/m	
Hole Flash Capture Mode	Volumetric Accuracy	0.03+0.035mm/m	0.03+0.03mm/m
	Volumetric Accuracy (Combined with PhotoShot)	0.03+0.015mm/m	

Patent

CN106228603B、CN208174805U、CN108759668B、CN109099839B、CN109102548B、CN305459208S、CN 110345866B、CN110340886B、CN305868718S、CN111486801B、CN111561866B、CN111595257B、CN212539085U、CN213481239U、CN212539143U、CN212658242U、CN213149247U、CN106767895B、CN106204544B、CN2142241017U

Model	ZG FreeBox-S	ZG FreeBox-T
Weight	1.0kg	1.3kg
Dimension	164×144×66mm	235×230×90mm
Battery Capacity	3400mAh	6800mAh
Operating Temperature	-10~40°C	
Operating Humidity	45~75%R.H.	
Working Time	3 Hours	
WiFi Standard	WIFI 5G 802.11ac	



ZG Technology Co., Ltd.

Website: www.3d-zg.com
Hot line: 400-027-7181

Tell: +86 27 87741893
Email: overseas@3d-zg.com

Add: Building No.1, Dingxin Industrial Park, No.18, Jiayuan Road, Hongshan District, Wuhan, China.