

3D SCANNING REVOLUTION

The industrial sector



Automotive



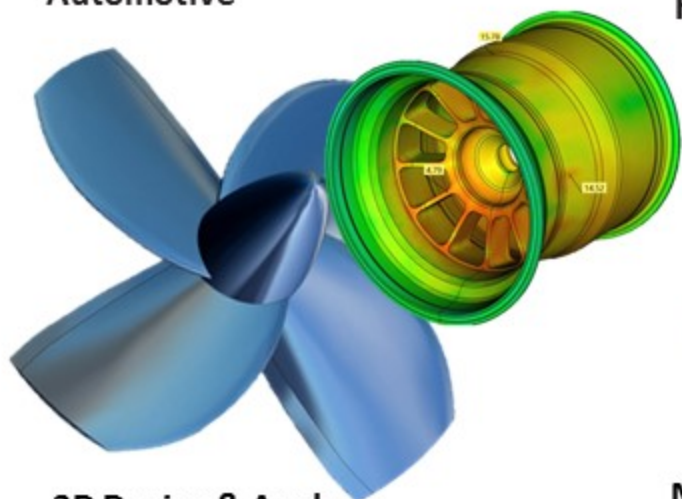
Heavy industry



Energy Sector



Archaeology



3D Design & Analysis



Medical



Science & Aerospace

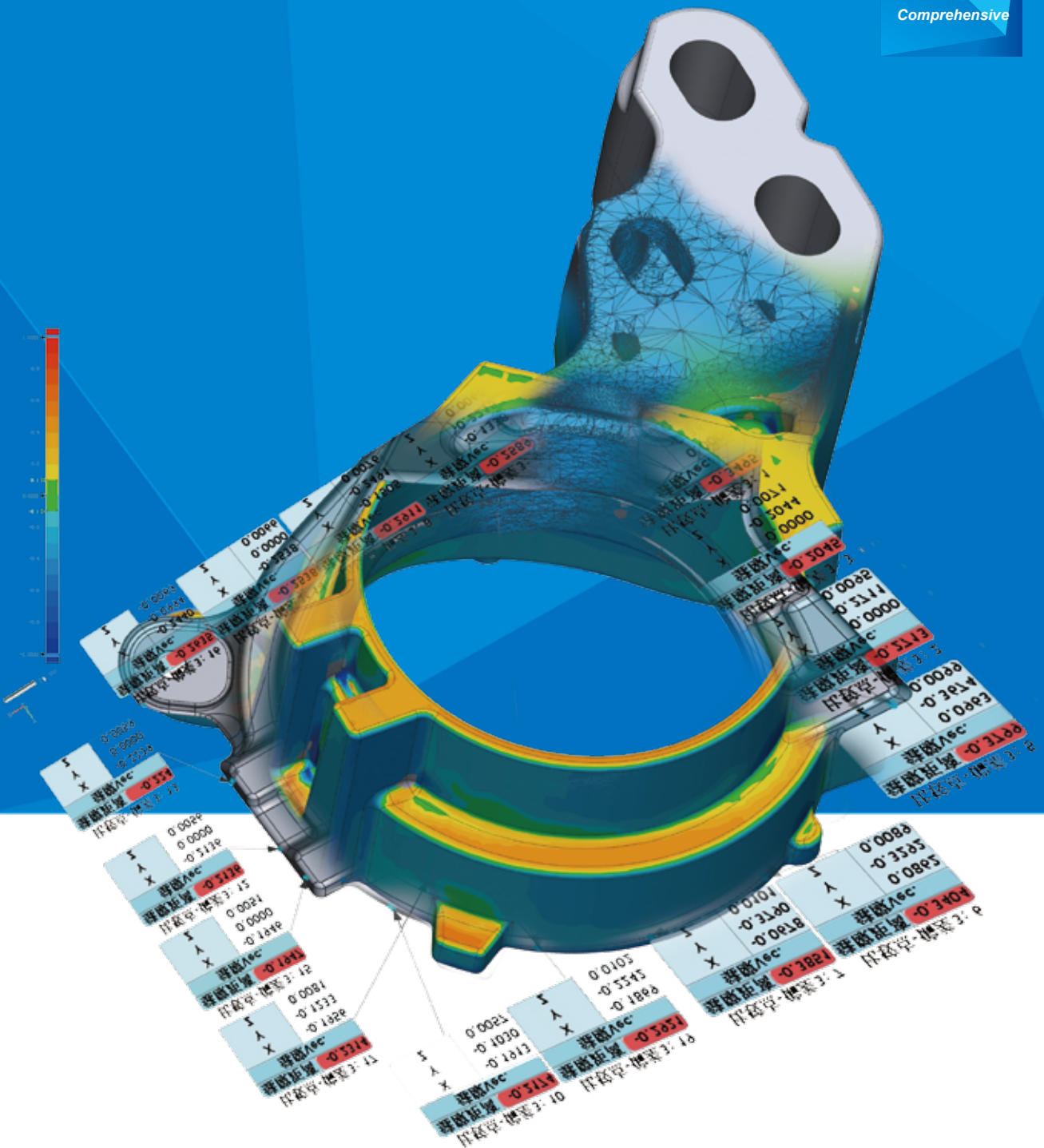


Mold and Manufacturing



SHINING 3D[®] (NEEQ:830978)

Automatic
Smart
Comprehensive

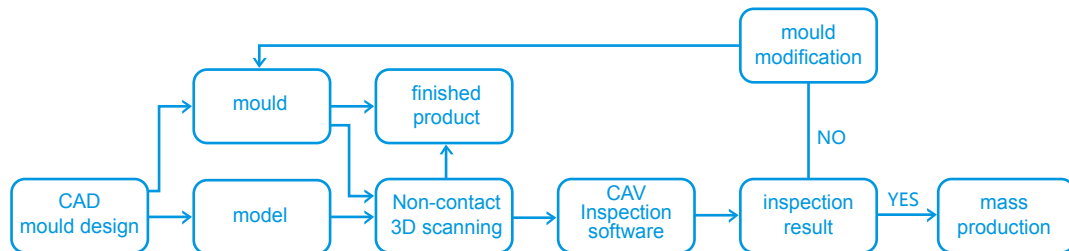


SHINING 3D

CAV Full Dimension Inspection Solution

Shining 3D CAV Full Dimension Inspection Solution

Two key points for CAV full dimension inspection solution: high accuracy 3D scanning and professional 3D inspection software. Shining 3D's high accuracy 3D scanner, photogrammetry system could integrate with professional CAV software, which can be applied in scanning and full dimension measuring and inspection for most industrial parts like industrial mould, turbine blade, prototype, plastic injection part, casting part, etc.



High Accuracy 3D Scanning — OptimScan-5M

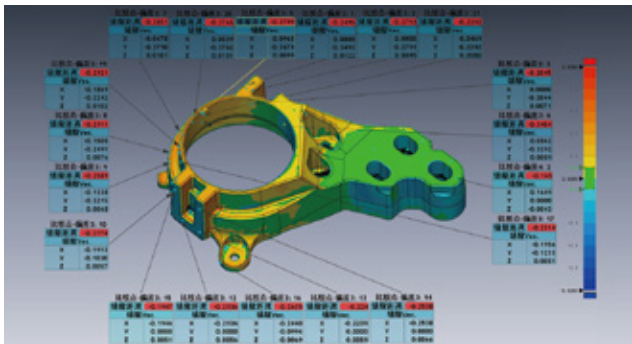
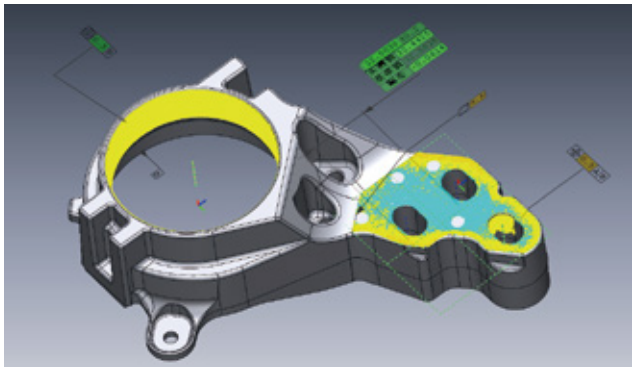
Shining 3D OptimScan-5M 3D scanner is the latest blue light 3D scanner in the market, featuring high-end outlook, structure, component and configuration. Its 5 mega pixel cameras and blue light scanning technology bring users amazing scanning speed and accuracy, suitable for high-end application like military, aerospace, mould industry, etc.



3D scanner with amazing scanning speed and accuracy.

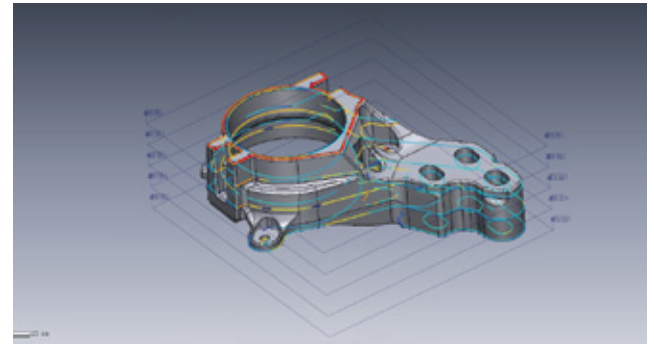
- 5.0 mega pixels
- latest blue light scanning technology
- highest accuracy could reach 5µm
- single scan is less than 2 seconds

Professional 3D Inspection Software



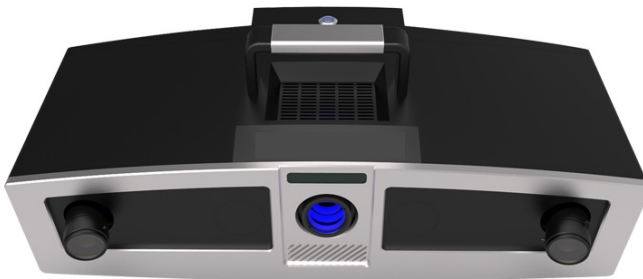
We would recommend Geomagic Verify (Original Rapidform XO) and Geomagic Control (Original Geomagic Qualify). As high accuracy CAV inspection tools, they can help users carry out comparison and error analyzing between CAD model and scanned data for real objects.

- inspection reports for scanned data can be processed in batches,
- parting line, feature line, thickness, shape edging line, contour error difference or cross-section can all be inspected,
- Detailed comparison at a certain point of CAD could be done; curved surface connection continuity and curvature flow analyzing could guarantee components' operability and conformability; detailed GD&T is also possible.



High Accuracy 3D Scanning — New ! OPTIMSCAN-3M

OptimScan-3M 3D scanner is the standard 3D scanner released by Shining 3D. Equipped with 3 mega pixels cameras and latest blue light scanning technology, it has wide application due to its excellent performance.



**PENTAX
RICOH**

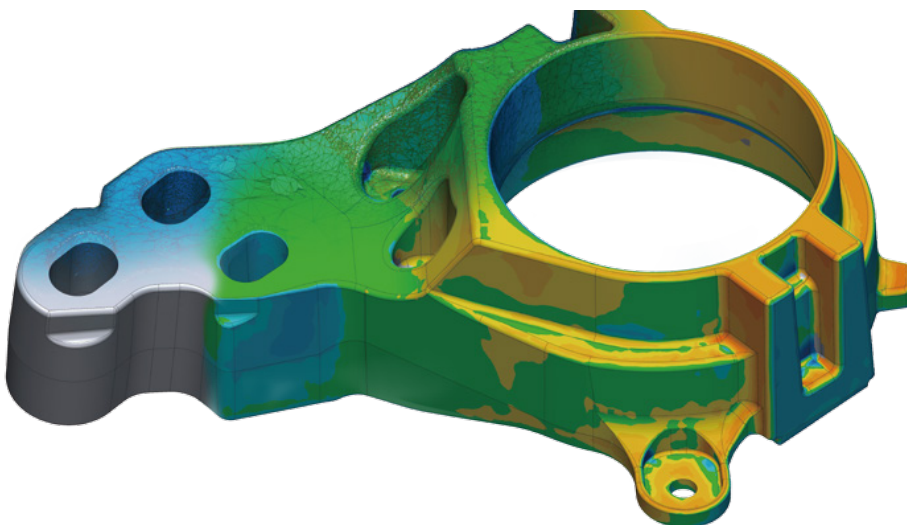
3.0 mega pixels RICOH (PENTAX) lens

Latest blue light scanning technology

Highest accuracy could reach 7 μ m

Single scan is less than 2 seconds

3 kinds of scan ranges can be chosen accordingly



Values of CAV Full Dimension Inspection



Minimize the error difference and save the time to the utmost :

This solution avoids manual error by carrying out CAD data inspection directly, which improves the inspection process efficiency.



Dramatic production efficiency improvement :

Professional inspection software could record all the steps and parameters. Batch inspection is as easy as single case inspection, because software could repeat the inspection procedure automatically. User can simply press one key to do one case or multi-case inspection job.



Smart inspection :

user can modify any step of the inspection process and the software shall update all related steps automatically. User has the right to modify till getting the best inspection result.



High accuracy :

repeatability is an important part of quality control process. Shining 3D full dimension inspection solution could help user realize this repeatability easily. Its automation also minimizes the error difference from user to user.



Turbine Blade



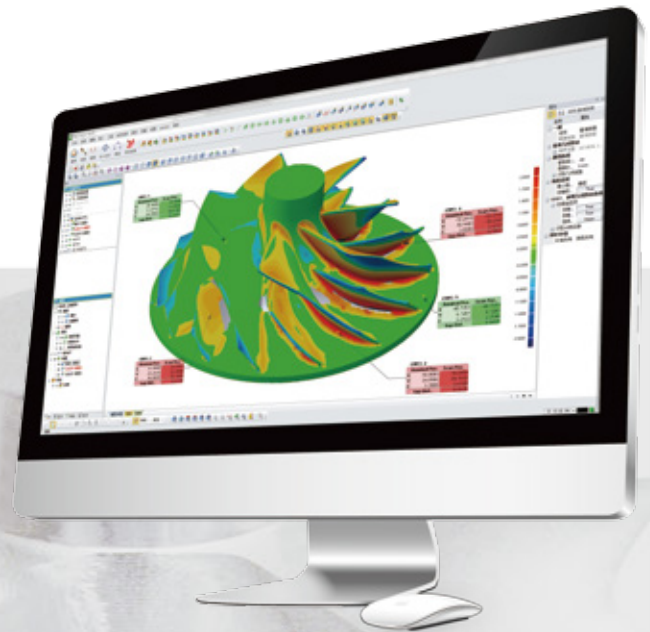
>>Point Cloud Data



>>STL Data



>>CAD Data



{Turbine Blade 3D Inspection:}

Automatic
Smart
Comprehensive

Product Technical Parameters

Model	OptimScan-3M	OptimScan-5M
Single scan range	100×75mm ²	100×75mm ²
	200×150mm ²	200×150mm ²
	400×300mm ²	400×300mm ²
Accuracy	0.007~0.025mm	0.005~0.015mm
Point distance	0.048~0.192mm	0.04~0.16mm
Scan time	<2S	<2S
Volume accuracy	0.09 mm/m	0.05 mm/m
Scan depth	100~400mm	100~400mm
Camera resolution	3,000,000×2	5,000,000×2
Light source	Blue light (LED)	Blue light (LED)
Scan type	Non-contact structure light scanning	Non-contact structure light scanning
Alignment method	Reference points auto-alignment/manual alignment	Reference points auto-alignment/manual alignment
Output data format	ASC, STL, PLY, RGE, P3, PF	ASC, STL, PLY, RGE, P3, PF
PC configuration requirement	CPU : Intel core i7 3770 or better	CPU : Intel core i7 3770 or better
	Display card : NVIDIA GeForce GT 670 or better	Display card : NVIDIA GeForce GT 670 or better
	Memory : 8G DDR3 1600 or better	Memory : 8G DDR3 1600 or better
Operating system	win7 / 10 64bit	win7 / 10 64bit
Operation temperature	0~45°C	0~45°C

Customer Service



About SHINING 3D

Shining 3D Tech Co., Ltd is a leading high-tech enterprise specialized in providing a whole 3D digitizing solution. Shining 3D now owns various proprietary intellectual property rights, including rapid 3D imaging, large-scale 3D measuring, 3D dynamic display, high precision modeling & reconstruction and so on. The White light 3D digitizing technology has advantages of high efficiency and high accuracy, now is widely used in fields of 3D measurement, reverse engineering, 3D inspection, customization, rapid prototyping, 3D display, 3D digital entertainment, etc.

Shining 3D manufacture system is strictly based upon ISO9001 and ISO14000, maintains standard and scale manufacturing & QA guarantee system, offers security of quality stability and manufacturing efficiency.

Aiming at creating value for customers, Shining 3D provides 3D digitizing solution with higher precision, efficiency and stability to many industries in global market. Nowadays, our 3D products are applied in more than 50 countries and regions, such as American, Europe, Southeast Asia, Middle East, Oceania etc.

First 3D digitizing and 3D printing stock in Europe and Asia (NEEQ:830978)

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