



**SHINING 3D<sup>®</sup>**

China's first OTC company in the 3D digitizing and printing industry ( 830978 )

# EinScan-SE vs EinScan-SP

**Department of consumer 3D Scanners**

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# EinScan-SE&SP

EinScan-SE



EinScan-SP

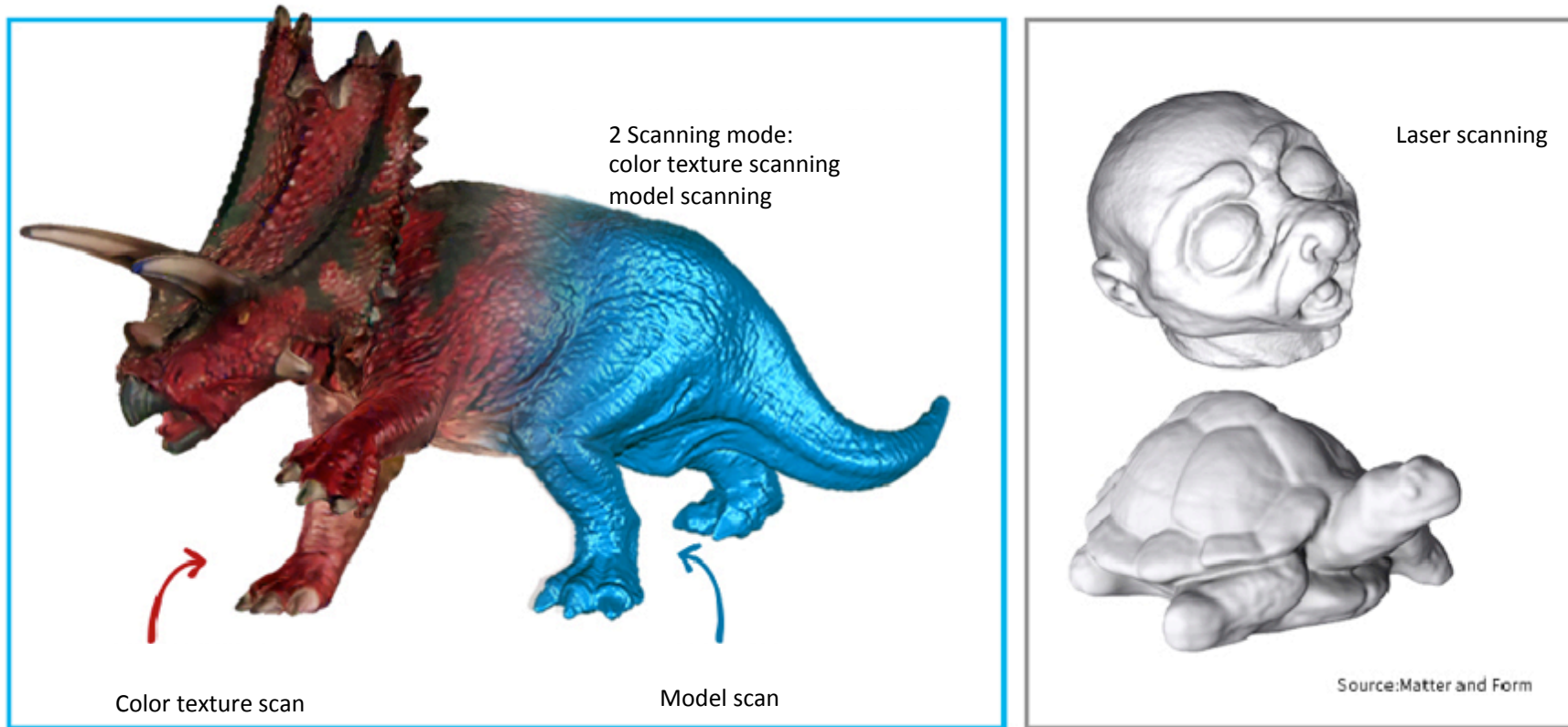


A new and innovative generation of desktop 3D scanners

1. Compact and integrated body ;
2. Simple and stable cable connection, plug and play, touch switch, one-touch start ;
3. Stable performance, easy operation, safe light source ;
4. Compatible with various brands of computers, high adaptability ;

# EinScan-SE & SP

Data quality: White light scan model vs. Laser light scan model



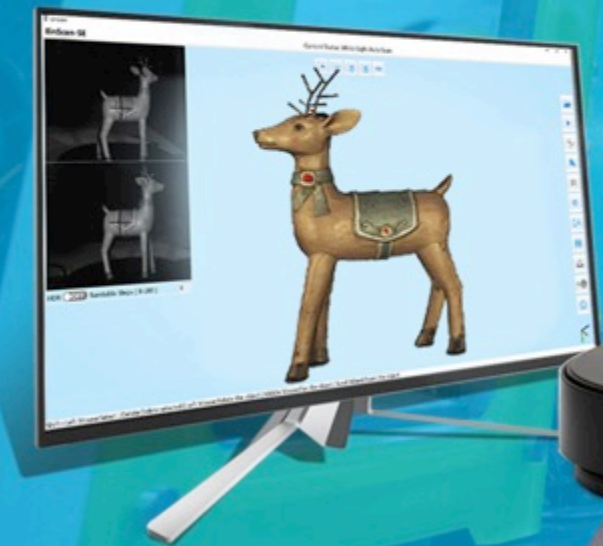
- Compared with the traditional laser scanning methods :
1. The details of the model obtained with white-light scanning are more finer.
  2. Scanning and modeling speed is more efficient.

# EinScan-SE Strong Points



## Safety:

Use of a safe white light source, compared to laser scanner. There is no risk of laser beam harming children's eyes, for safety use.

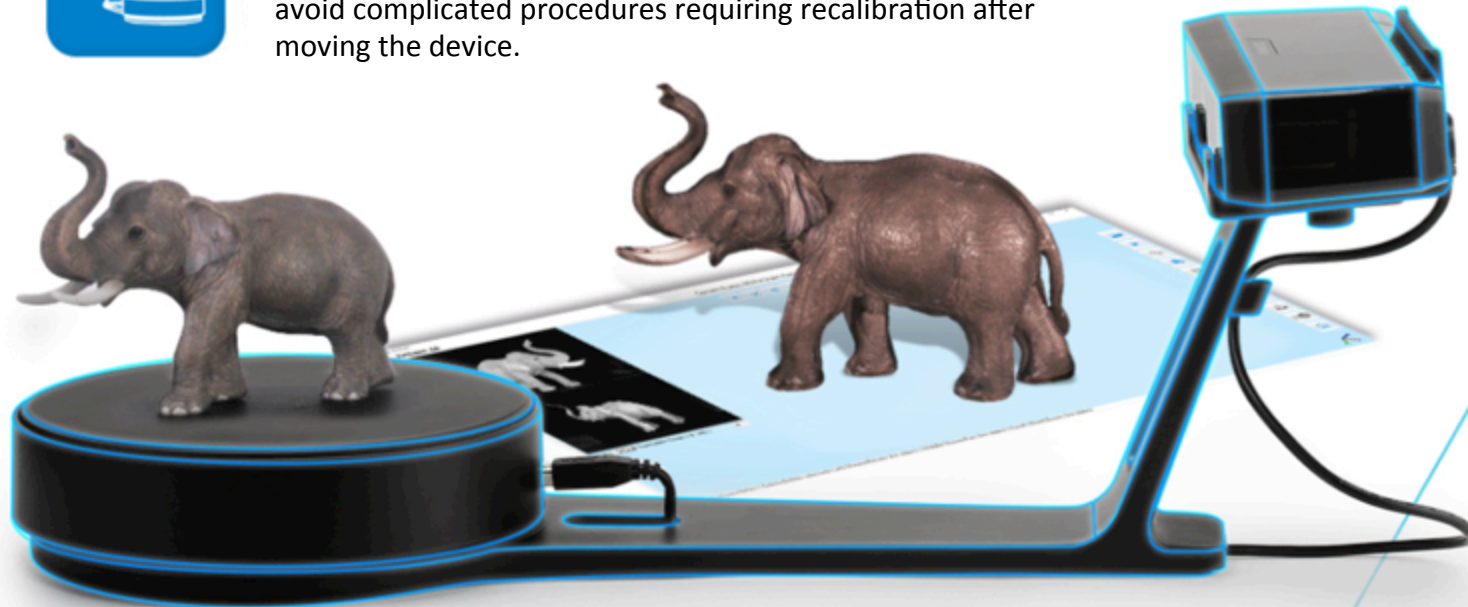


# EinScan-SE Strong Points



**Stability:**

integrated body design, lock the scan head and turntable relative positions, reduce the probability of double calibration, avoid complicated procedures requiring recalibration after moving the device.



# EinScan-SE Strong Points



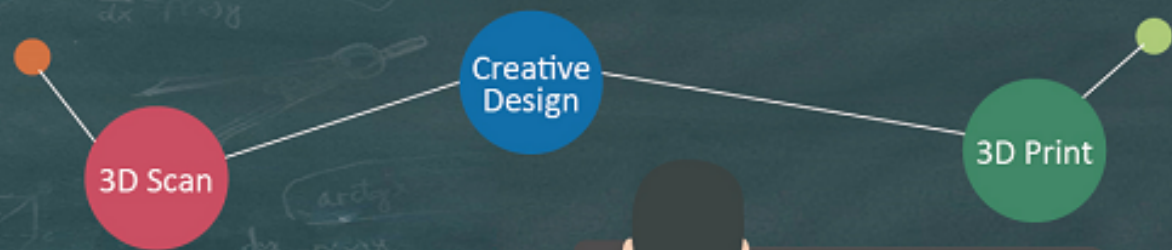
## Easy and user-friendly experience:

Turntable mode completing one rotation in only 2 minutes, multiple scan data can be automatically stitched, automatically creates printable, high-quality data; share on the online 3D data platforms to experience the joy of sharing.



# EinScan-SE Strong Points

3D Scanning + 3D Printing = Your Dream Toy



Create anything that you want



# EinScan-SP Strong Points

## Strict accuracy verification

With markers, features, turntable, turntable- markers

Manual splicing function, single scanning accuracy of 0.05mm



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## Testing Report

购买单位: 杭州先临三维科技股份有限公司

检测日期: 2014. 07. 16

被测件: 球棒型亚光陶瓷球棒, 球圆度误差小于  $5\mu\text{m}$ .

### 检测数据

球棒编号	中心距数值 (mm)	球平均直径 (mm)	
		A	B
No.140706	59.9760	25.3996	25.3987

温馨提示: 以上为出厂检测数据, 仅作参考, 测量不确定度 0.005 mm. 此球棒若作为标准传递使用, 需经当地法定鉴定机构检测认证。

以下空白。

检测员: *3015*



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# EinScan-SP Strong Points



	Center-distance value (mm)
Measurements	59.9449
Actual value	59.9780
Error	0.033

Dimensional verification of standard 3D ceramic scanning spheres, to compare measured values versus actual values to determine measured error. The calculated error is 0.033mm using this method.

**Notice :** It does not mean every Einscan SP has accuracy of exact 0.033mm. We guarantee accuracy of single scan within 0.05mm on every sold Einscan-SP after right calibration.

# EinScan-SP Strong Points



**Meeting reverse engineering requirements in the office:**  
Satisfies design requirements in an office environment,  
innovation tool for designers and engineers.



# EinScan-SE &SP Strong Points



**SOLID EDGE**



Geomagic<sup>®</sup> for SOLIDWORKS<sup>®</sup>

**SIEMENS**

**RhinoCeros<sup>®</sup>**  
NURBS modeling for Windows

**VERISURF**



**NX**



Scanned data compatible with a variety of 3D Modeling and design Software

# EinScan-SE & SP Comparison

## *EinScan-SE*



Single scan accuracy : 0.1mm

## *EinScan-SP*

Desktop 3D Scanner  
High-precision calibration  
tool, with strict accuracy  
verification procedures, for  
an accurate model with  
global registration  
optimization.



Single scan accuracy : 0.05mm

# EinScan-SE & SP Comparison



Stitching mode: turntable splicing, feature splicing



Stitching mode: turntable splicing, feature splicing, markers splicing, turntable coding markers splicing

It can scan objects of different nature, and it is fully capable of doing reverse engineering of most mechanical parts or models in office environment.

# EinScan-SE&SP comparison



Scan speed: Single scan time is less than 8 seconds.  
Full revolution time less than 2 minutes



Scan speed: Single scan time is less than 4 seconds  
Full revolution time less than 1 minute

# EinScan-SE & SP Comparison



Maximum scan size: 700 x 700 x 700 mm



Maximum scan size: 1200 x 1200 x 1200 mm

# EinScan-SE & SP Comparison



## Recommended Applications:

Allow novice and inexperienced users to create high-quality models efficiently, and of high-quality data optimum for 3D printing. Used with desktop FDM printers, can be included in innovative education programs for 3D printing in K-12 classrooms. Suitable for individual designers, requiring less precision and offering tools for innovative education in 3D printing, which is an important part of STEM program.

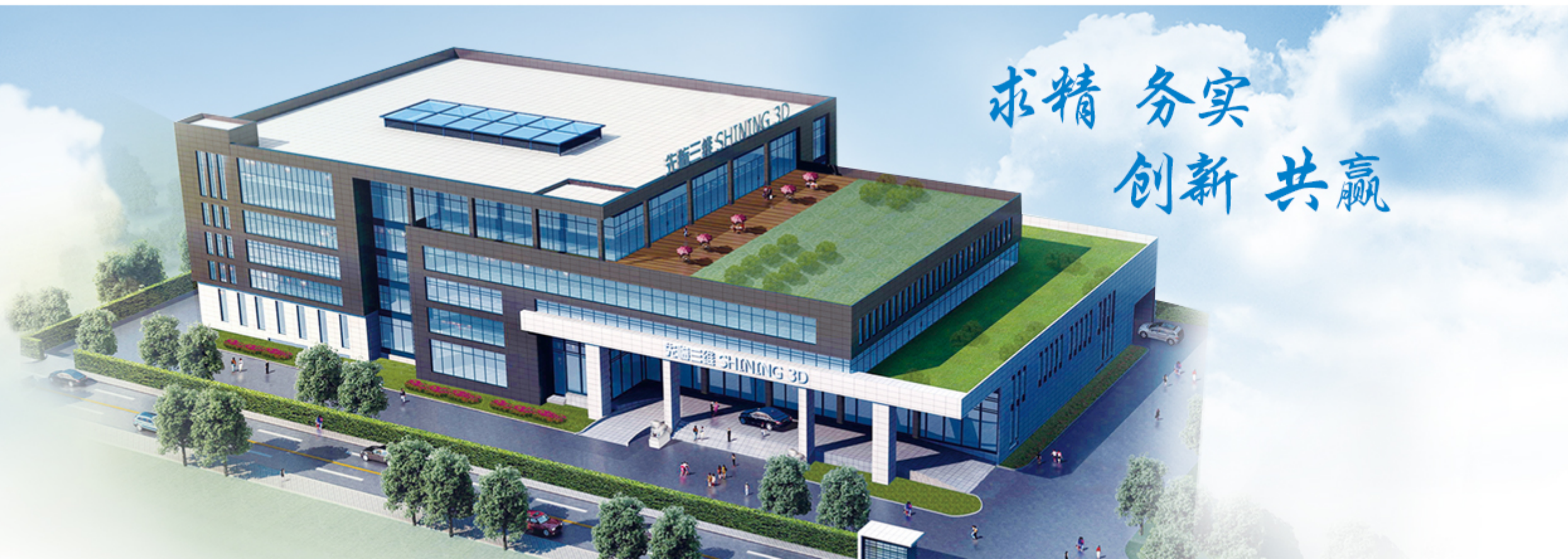


## Recommended Applications:

Meets reverse engineering demands in office environment. Meets tight and high accuracy verification standards. Accuracy testing methods are based on the German Optical Scanner Measurement Inspection Standards VDI / VDE2634. For designers and engineers: Suitable for mechanical design and structural design. For designers developing 3D mapping tools.



CREATE VALUE FOR YOU



求精 务实  
创新 共赢



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