

3D PRINTING/ 3D SCANNING/ OVERALL 3D DIGITAL SOLUTION



数造科技
Digital Manufacturing

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TECHNICAL FORERUNNER OF CHINESE 3D PRINTING AND 3D DIGITIZING

> SHANGHAI DIGITAL MANUFACTURING CO.,LTD (STOCK CODE: 870857)

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Shanghai Digital Manufacturing Co., Ltd (SHDM) (Stock code: 870857) was founded in 2004, is a high-tech enterprise and also the academician workstation in Shanghai. SHDM is a professional company focusing on the R&D, manu-facturing, sales of high-tech 3D printers and 3D scanners and providing the overall 3D printing solution. SHDM is headquartered in the industrial area of Brilliant City, Pudong district, adjacent to many first-class international companies. SHDM has established branch companies and offices in the city of Chongqing, Xiangtan, Tianjin, Ningbo, Shenzhen, etc.

SHDM currently has more than 70 workers and more than 20% are with Master's or Doctor's degrees. The SLA series of 3D printer and white- light scanner, laser body scanner researched and developed by our group leading by Dr. Zhao ever won the National Awards of second class for Scientific and Technological Advancement and Shanghai Award for Scientific and Technological Advancement. Besides, SHDM also developed SLM metal 3D printer, series of industrial FDM printer and ceramic 3D printer. SHDM owns more than 20 patents of technological inventions and software copyrights.

Since the foundation, SHDM bears the mission of " Digital Manufacturing Changes the World" and insists on the management idea of " Attentive Manufacturing, Sincere Service" and has set up the unique brand of " Digital Manufacturing" through more than 10 years of painstaking research & development, experience accumulation, advanced technology, superior quality and perfect service system. SHDM provides high-quality products and service to a variety of domestic and interna-tional enterprises, colleges and science & research institutions, such as Shanghai Jiao Tong University, General Motors Coopera-tion, Chengdu Aircraft Research Institute, Senyuan Group, Central Academy of Fine Arts, The Fourth Military Medical University etc, covering a variety of industries including industrial manufacturing, medical, cars, robot, aerospace, education and scientific research, exhibitions, culture creativity, individualization etc.



SHDM participated in the establishment of 3D printing estitute in Nanjing, China.

Former commerce secretary inspected SHDM

Dr. Zhao (First Row, the second counted from left), participated in the seminar for the standard proposals of National AM

SHDM signed the Xiang Tan High-tech Intelligent Manufacturing Valley

SHDM Company

Introduction of company leaders



Dr. Zhao (Chairman, founder and CTO)

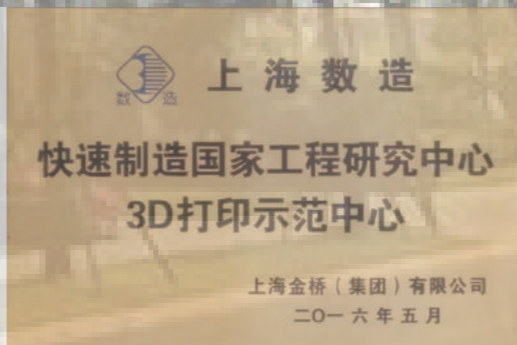
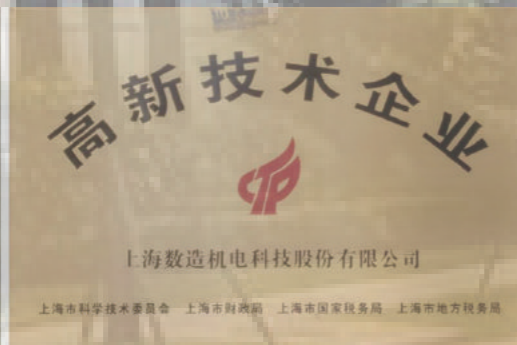
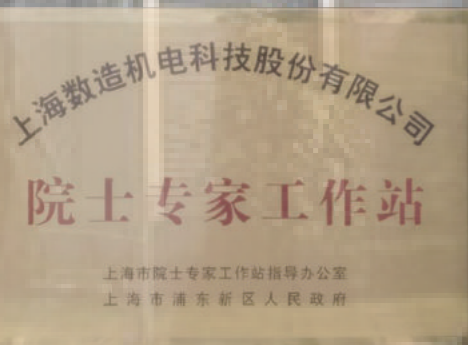
Committee member of the National Technical Committee on Additive Manufacturing of Standardization Administration of China. Dr. Zhao was born in the city of Xiangtan, Hunan province, doctor's degree of Xi'an Jiaotong University. He was ever the vice professor in Shanghai Jiao Tong University. He is the forerunner of Chinese 3D printing and 3D digitizing.

Dr. Zhao ever successively founded the company of Union Tech and SDM and successfully researched, developed and industrialized the SLA 3D printer, structured light3D scanner, laser body scanner and established the competitive advantage of relevant products in domestic market and therefore makes an outstanding contribution to our 3D printing and 3D digital manufacturing.



Liu Wenxin (Deputy Chairman)

Master of Xi'an Jiaotong University, EMBA of Cheung Kong Graduate School of Business and Shanghai Advanced Institute of Finance. He ever successfully founded the company of Dalian Dongzhijie Sports Co., Ltd and Qingdao Chuange Restaurant Management Co., Ltd. He was ever the CEO of Hongkong listed company of Pou Sheng Int'l and member of the 11th Chinese People's Political Consultative Conference in the province of Hunan. He owns rich experiences in financing, mergers and acquisition, management and capital operation.



Introduction of the 2nd generation of SL 3D printers- S series (High resolution)

Shanghai Digital Manufacturing Co., Ltd (SHDM) is member of National Technical Committee on Additive Manufacturing of Standardization Administration of China. The 2nd generation of 3DSL series of 3D printers adopts the most advanced SL technology which was independently researched and developed by SHDM and won the 2nd class Award of National Scientific & Technological Progress. Through more than 10 years of experience accumulation and market trials, SHDM has applied a variety of patents. Based on the painstaking research and practice of more than 20 years, new generation of 3DSL printers are improved a lot in software and hardware, which can achieve better performance and at the same time the quality and efficiency was largely improved in areas such as, rapid prototype, mold making, medical aid, culture and art, education, scientific research and other industrial products.



Characteristics

1. Adopting advanced graphic processing algorithm, with automatic recognition of details. Higher resolution.
2. Unique printing mode to ensure excellent surface finish.
3. Patented lifting control system of resin tank, with ultra-large endurance to avoid frequently adding of resin during printing.
4. Resin tank can be changed easily to allow printing more kinds of resin with one printer.
5. Depth of resin tank is customizable.
6. For batch printing, multi-part copy and one-click intelligent layout are supportable which improved the printing efficiency.
7. One-click automatic printing and one-click stop during printing
8. Laser online examination, all the technological parameters are automatically set-up, print is more stable.
9. Intelligent recoating technology combined with negative suction scraping technology ensure the print stability.

Cases:



Industrial Design Part Printing



Medical Model Printing



Artistic Design

Pamameters

Models	3DSL-360S	3DSL-450S	3DSL-600S
Build Size (X/Y Axis)	360mm(X)×360mm(Y)	450mm(X)×450mm(Y)	600mm(X)×600mm(Y)
Build Size(Z Axis)	300mm(Standard), 50-300mm(Customizable)	330mm(Standard), 50-330mm(Customizable)	400mm(Standard), 100-400mm(Customizable)
Size of Equipment	1210mm×920mm×1780mm	1430mm×980mm×1850mm	1500mm×1200mm×1920mm
Weight of Equipment	850kg	950kg	1050kg
Resin Start Package	70kg (Initial:65kg+extra added: 5kg)	130kg (Initial:120kg+extra added:10kg)	240kg (Initial :230kg+extra added:10kg)
Efficiency	60-100g/h	60-120g/h	60-180g/h
Max. Part Weight	40kg	60kg	80kg
Resin Endurance Weight	6kg	10kg	13kg
Mold Precision	±0.1mm(L≤100mm)or ±0.1%×L(L > 100mm), (Max.:0.05mm)		
Resin Heating Mode	Hot air heating(optional)		
Max. Scanning Speed	10m/s		
Changeable Resin Tank	Drawer Type		
Resin Type	SZUV-W8001(Exquisite white), SZUV-S9006(High tenacity white), SZUV-S9008(Soft), SZUV-C6006(Transparent), SZUV-T100(High temperature resistant), SZUV-P01(Damp-proof), Others.		

Configuration

Laser System	Laser Type	Laser Wavelength	Laser Power (Output)	
	Solid Laser	355nm	≥500mw	
Scanning System	Scan Galvanometer	Spot Diameter	Focus Mode	
	High Resolution Galvanometer	0.1-0.2mm	F-theta Lens	
Coating System	Recoating Mode	Recoating Thickness		
	Intelligent Positioning Vacuum Suction Coating	0.03-0.25mm (Normal:0.1mm; Accurate: 0.03-0.1mm; High Speed: 0.1-0.25mm)		
Lifting System	Lifting Motor	Precision	Repeated Positioning Precision	Datum Platform
	High Precision AC Servo Motor	0.001mm	±0.01mm	Marble
Software Environment	Operating System	Control Software	Data Interface	Internet Type
	WindowsXP/Win7	3DSLCON	STL/SLC format file	Ethernet TCP/IP
Installation Environment	Power	Environment Temperature	Environment Humidity	
	AC220V,50HZ,16A	24-28°C	20-40%	

Introduction of the 2nd generation of SL 3D printers- Hi series (High efficiency)

Characteristics

1. Productivity is largely improved compared to the traditional 3D printers, and 3DSL-600Hi can reach the productivity of Max. 400g/h.
2. Adopting the intelligent beam variation design, and the details can be recognized automatically, to scan the outline using the thin beam and to fill large area using the thick beam, printing efficiency is largely improved while maintaining the resolution of the details.
3. Patented lifting control system of resin tank, with ultra-large endurance to avoid frequently adding of resin during printing.
4. Resin tank can be changed easily to allow printing more kinds of resin with one printer.
5. Depth of resin tank is customizable.
6. For batch printing, multi-part copy and one-click layout typesetting are supportable which improved the printing efficiency.
7. One-click automatic printing and one-click stop during printing.
8. With the improvement of printing material in the strength, tenacity and heat-resistance ability, the printing part can reach the engineering application level.
9. Intelligent coating technology combined with negative suction recoating technology ensure the print stability.



Cases:



Ultra-long Part Printing



Small Batch Printing of Shoe



2-meter Tall Artwork

Parameters

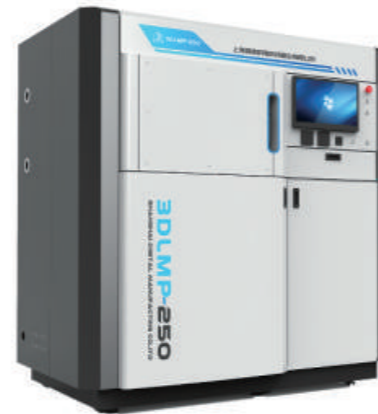
Model	3DSL-360Hi	3DSL-450Hi	3DSL-600Hi
Build Size(X/Y Axis)	360mm(X)×360mm(Y)	450mm(X)×450mm(Y)	600mm(X)×600mm(Y)
Build Size(Z Axis)	300mm(Standard), 50-300mm(Customizable)	330mm(Standard), 50-330mm(Customizable)	400mm(Standard), 100-400mm(Customizable)
Size of Equipment	1210mm×920mm×1780mm	1430mm×980mm×1850mm	1500mm×1200mm×1920mm
Weight of Equipment	850kg	950kg	1050kg
Resin Start Package	70kg (Initial:65kg+ extra added:5kg)	130kg (Initial:120kg+extra added10kg)	240kg (Initial:230kg+extra added:10kg)
Efficiency	80-260g/h	80-320g/h	80-400g/h
Max. Part Weight	40kg	60kg	80kg
Resin Endurance	6kg	10kg	13kg
Build Precision	±0.1mm(L≤100mm) or±0.1%×L(L > 100mm), (Max.: 0.05mm)		
Resin Heating Mode	Hot air heating(optional)		
Max. Scanning Speed	10m/s		
Changeable Resin Tank	Drawer type		
Resin Type	SZUV-W8001(Exquisite white), SZUV-S9006(High-tenacy white), SZUV-S9008(Soft), SZUV-C6006(Transparent), SZUV-T100(High temperature resistant), SZUV-P01(Dump-proof), Others		

Configuration:

Laser System	Laser Type	Laser Wavelength	Laser Power (Output)	
	Solid Laser	355nm	≥500mw	
Scanning System	Scan Galvanometer	Laser Beam Diameter	Focus Mode	
	SCANLAB(imported)	Variable beam 0.1-0.5mm	F-theta Lens	
Recoating System	Recoating Mode	Recoating Thickness		
	Intelligent Positioning Vacuum Suction System Coating	0.03-0.25mm (Normal :0.1mm; Accurate:0.03-0.1mm; High Speed: 0.1-0.25mm)		
Lifting System	Lifting Motor	Resolution	Repeated Positioning Resolution	Datum Platform
	High Precision AC Servo Motor	0.001mm	±0.01mm	Marble
Software Environment	Operation System	Control Software	Data Interface	Internet Type
	WindowsXP/Win7	3DSLCON	STL/SLC format file	Ehernet TCP/IP
Installation Environment	Power	Environment Temperature	Environment Humidity	
	AC220V,50HZ,16A	24-28°C	20-40%	

METAL 3D PRINTER-3DLMP-250

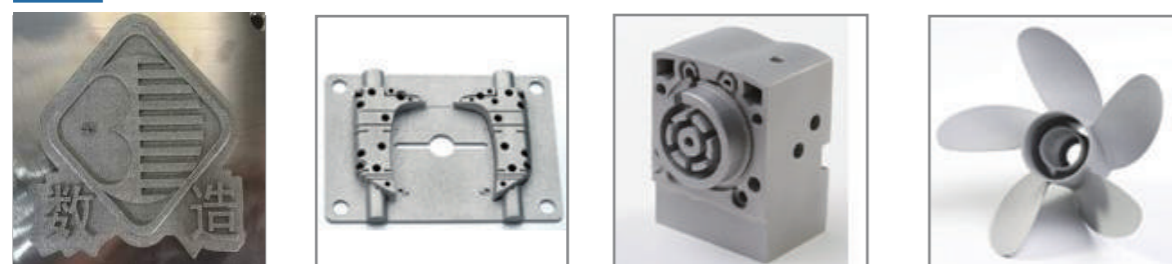
3DLMP-250 3D metal printer is to rapid prototype metal parts by laser selectively melting the metal powder. The printing system is open and the parameters are adjustable. 3DLMP-250 printer can print materials including stainless steel, Titanium alloy, Cobalt-Chromium alloy, Nickel base alloy, Aluminium alloy etc, which are suitable for new product development, manufacturing and scientific research and are widely used in the area of military industrial enterprises, aerospace, automobile manufacturing and medical care.



Parameters

Max Build Size	250mm×250mm×250mm(X,Y,Z)
Efficiency	5-20cm³/h
Laser System	Solid Optical Laser, Wavelength: 1064nm infrared, Power:500W
Laser Scanning Speed	Max.:5000mm/s
Max. Laser Positioning Speed	10000mm/s
Layer Thickness	20-100µm
Laser Beam Diameter	80-100µm
Size of the Main Body	1840mm×1075mm×1920mm(L×W×H,Excluding the auxiliary equipment)
Print Precision	≤0.05mm
Protection Air	External Argon (Ar) or Helium (He), Oxygen concentration can be controlled to less than 0.01%, High precision Oxygen content inspection and control system is equipped.
Powder Filtering System	Inert air circulation system is with the powder filtering function
Control Computer	Operation system: 32bit/64bit Win7 and higher
Safety Control System	Anti-explosion design, anti-static design, alarm for inert air leaking, display and alarm for oxygen content and humidity in the printing room
Weight	GW:1600kg
Power	AC380V, 20A, 3 phase
Compatible Material	Stainless steel 316L and 17-4PH, Aluminium: AlSi10Mg, Titanium:Ti6Al4V, Cobalt-Chromium alloy: ASTM75, Inconel: 718 and 625, other customizable materials

Cases



3DDP series of industrial desktop 3D printers

3DDP series of industrial desktop 3D printers developed by SHDM is with unique structure and excellent design while screw-rod linear guide and power electric-control are equipped to ensure the stability of the printer. Therefore the surface quality of the object and mold precision are highly improved and the compatible materials are largely expanded. Printers of 3DDP series of are widely used in the area of education and cultural creativity. 3DDP-P10 is the appointed product of the National 3D Competition(Digital Master 2017 and the 10th National 3D Innovative Design Competition).

Model	3DDP-P8	3DDP-P10	3DDP-320	3DDP-350M	3DDP-500
Appearance					
Mold Size	210mm×210mm×210mm	300mm×300mm×400mm	300mm×225mm×320mm	350mm×350mm×250mm	500mm×500mm×600mm
Layer Thickness	0.1-0.3mm	0.1-0.3mm	0.05-0.4mm (Optional)	0.05-0.4mm (Optional)	0.05-0.4mm (Optional)
Printing Speed	≤200mm/s	≤200mm/s	Normal 60-120mm/s	Normal 60-120mm/s	Normal 60-120mm/s
Nozzle Diameter	0.4mm	0.4mm	0.4mm	0.4mm	0.4/0.8mm
Print Material	PLA, Wood, Carbon Fiber, more colors are available	PLA, Wood, Carbon Fiber, more colors are available	PLA, Wood, Carbon Fiber, more colors are available	PLA, Wood, Carbon Fiber, more colors are available	PLA, Wood, Carbon Fiber, more colors are available
File Format	STL, OBJ	STL, OBJ	STL, OBJ	STL, OBJ	STL, OBJ
Filament Feeding	Remote Feeding	Remote Feeding	Remote Feeding	Short-range Feeding	Short-range Feeding
Characteristics	1. With dual function of 3D printing and laser engraving. 2. Unique mold platform, easy to get the end product 3. Linear bearing system moves steadily, silent. 4. Suite installation, convenient transportation. 5. Integral T- rod motor ensures higher printing resolution.	1. Ultra large size, high print precision. 2. Ingenious design, suite packaging, easy installation. 3. Linear bearing system moves steadily, silent. 4. Integral T- rod motor ensures higher printing resolution.	1. New XYZ structure, excellent guide, more steady movement and low noise. 2. Non-welding integrated body, stable and strong. 3. Accurate traditional screw rod, print surface is smooth and resolution is high. 4. LCD display, Chinese and English are supportable, SD card offline printing is possible, easy to operate. and control, printing speed can support long-time print.	1. Short-range feeding structure can effectively solve the filament drawing problem and therefore ensure an excellent printing performance. 2.Hbot structure, " high speed", " facile movement" and " high percentage of printing area". 3. Double screw- rods are adopted in Z axis which can ensure the stable movement. 4. Fully closed printing room, safe and beautiful appearance. 5. Colorful touch screen support Chinese and English language. 6. Industrial design ensures long-time working	1. Short-range feeding structure can effectively solve the filament drawing problem and therefore ensure an excellent printing performance. 2. Double screw- rods are adopted in Z axis which can ensure the movement. 3. High quality imported bearings ensure high resolution and ultra-long time printing. 4. 57 series of large-torque stepping motor ensures the stable movement and high printing speed. 5. Half-closed printing room, safe and environmentally friendly, beautiful appearance.



3DSS series of high precision 3D scanner

3DSS series of high precision 3D scanner adopt the surface structural light scanning technology, its basic theory is to shoot the grille light to the object surface through the raster generator to generate data bar code, two camera lens collect the data of the bar codes in order to get the three-dimensional data by the phase difference of the two camera lens. Each time one point cloud data of each breadth of a scan can be got, then join all the breadths together and finally the model of object surface can be obtained.



CHARACTERISTICS OF 3DSS SCANNERS

1. Joint automatically, supporting to select the best data from the overlapping point cloud data.
2. High scanning speed, single scanning time is less than 3 seconds.
3. High precision, single scan can collect points of 1 million.
4. Scanning data will be saved automatically, no affect the operation time.
5. Adopting LED cold light source, small heat, performance is stable.
6. Main body is made of carbon fiber, thermal stability is higher.
7. Patented streamline outlook design, beautiful, light and durable.
8. Many group of camera lens can be used, large range scanning can be realized.
9. Capable of scanning both large objects and small accurate objects.
10. Scanner is customizable according to the size of the object.

APPLICATIONS

- | | | | |
|---------------------------|-------------------------------|---|--------------------------------------|
| 1. Reverse engineering | 5. Craft design | 8. Automobile clay model | 12. Accurate mould |
| 2. 3D inspection | 6. Education | 9.3D animation | 13. Electronics & electric appliance |
| 3. Automobile part design | 7. Medical product design and | 10. Motion pictures and television making | |
| 4. Carving industry | manufacturing | 11. 3D printing | 14. Cultural relic digitalization |

3DPS high precision photogrammetry system

High precision photogrammetry system is a set of portable coordinate measuring machine, it highly parses the portrait data collected by digital camera. Before measurement, all the round signs will be stuck on the measuring points for taking photos using digital camera from different points of view, and then these photos are put into the measuring software of AICON 3D Studio and then all the coordinates of the target spots will be calculated automatically. What the Photogrammetry system get are separate independent coordinates, and to get the whole point cloud of the large object, usually a 3DSS scanner is needed which can obtained high precision point cloud of large object easily.

Main parameters

Measuring range: 0.1*0.1*0.1m~10*10*10m
Precision: ±0.015mm/m



3DSS-MIRG-III
3DSS-MIRGB-III **Mirage standard series of 3D scanner**

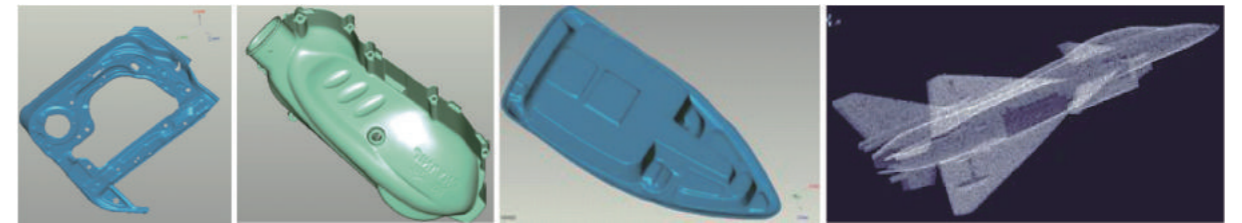
Mirage standard series of 3D scanner are the 3rd generation of optical scanners designed and manufactured by SHDM, adopting the streamline outlook design and fixed camera lens, beautiful and the scanning speed and precision is highly improved.

Standard series contain white light and blue light 3D scanners



Main Parameters:

Single scan range: 400mm(X) *300mm(Y)
Single scan precision:±0.02mm
Single scan time: < 3s
Single scan resolution:1,310,000/3,000,000/5,000,000
Point cloud output format: GPD/STL/ASC/IGS/WRL compatible with the normal software of reverse engineering and 3D CAD



Car door Oilcan Ship model Aircraft model

3DSS-MINI-III
3DSS-MINIB-III **3DSS series of accurate 3D scanners**

To meet the market requirement for accurate parts and fine products, SHDM launched accurate series optical 3D scanners using its most advanced technology. 3DSS accurate series contain white light and blue light 3D scanners.

Main Parameters:

Single scan range: 100mm(X) *75mm(Y), 50 mm*40mm
Single scan precision:±0.01mm
Single scan time: < 3s
Single scan resolution:1,310,000
Point cloud output format: GPD/STL/ASC/IGS/WRL compatible with the normal software of reverse engineering and 3D



Coins Hang decorations Jade carving Bone nail Tooth

3DSS-MIRG4M-III **Mirage 4-eye 3D scanners**

3DSS-MIRG4MB-III

Mirage 4-eye 3D scanner is equipped with 4 group of camera lens, which can be chosen and shifted according to the size of the object and detailed texture of the object surface. Large and small accurate scanning can be accomplished at the same time without readjustment or redemarcate of camera lens.

Mirage 4-eye series contain white light and blue light 3D scanners.

Main Parameters:

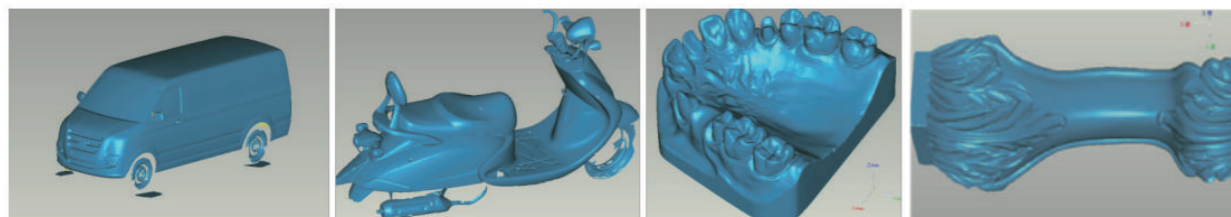
Single scan range: 400mm(X) *300mm(Y), 100 mm*80mm

Single scan precision:±0.03mm ±0.01mm

Single scan time: < 3s

Single scan resolution:1,310,000/3,000,000/5,000,000

Point cloud output format: GPD/STL/ASC/IGS/WRL compatible with the normal software of reverse engineering and 3D CAD.



Outer surface of automobile

Clay model

Tooth model

Furniture parts

3DSS-CUST4M-III **Customizable 4-eye 3D scanners**

3DSS-CUST4MB-III

SHDM can manufacture 3D scanners according to the requirement of clients, camera lens quantity, position of camera lens and scanning distance can be adjusted flexibly, so that a variety scanning range and precision can be achieved which can meet the requirement for precise inspection of complex curved surface, soft object or all kinds of samples and workpiece.

White and blue light are optional.

Main Parameters:

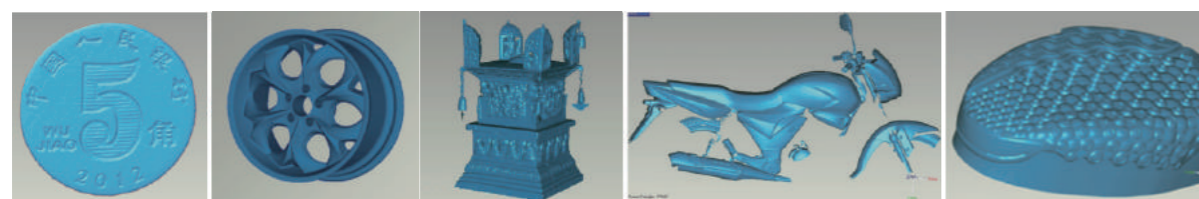
Single scan range: 50mm(X) *40mm(Y), 100 mm*75mm; 200 mm*150mm;400 mm*300mm; 800 mm*600mm

Single scan precision:±0.01mm ~ ±0.05mm

Single scan time: < 3s

Single scan resolution:1,310,000

Point cloud output format: GPD/STL/ASC/IGS/WRL compatible with the normal software of reverse engineering and 3D CAD.



Coins

Car wheel hub

Cultural relic scanning

Motorcycle scanning

Shoe scanning

3DCC colorful portrait 3D scanner

3DCC colorful portrait 3D scanner obtains color information of the object surface with 24-bit true color of 1.31million of pixels. It can obtain the color surface information at the same time the high precision 3-dimensional data can be ensured. 3DCC expands the traditional photography from 2D to 3D, 3-dimensionally digitalizes the surface of the object and therefore records a true 3-dimension



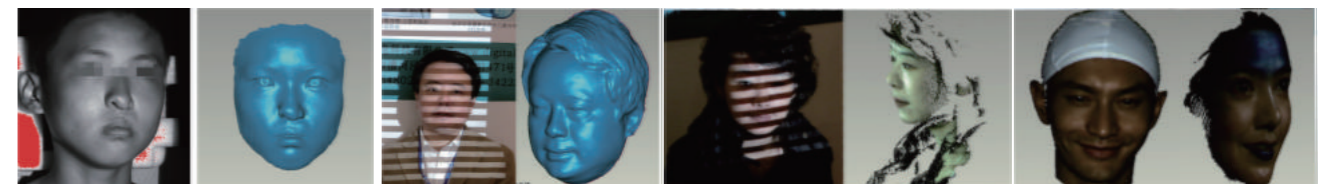
Main Parameters:

Single scan range: 400mm(X) *300mm(Y), 500 mm*400mm

Single scan precision:0.05mm

Single scan time: 2s

Color: 24 bit true color

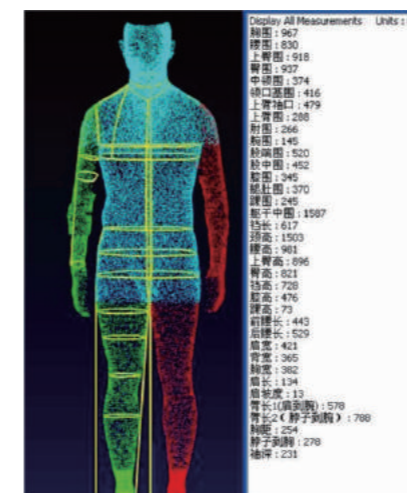
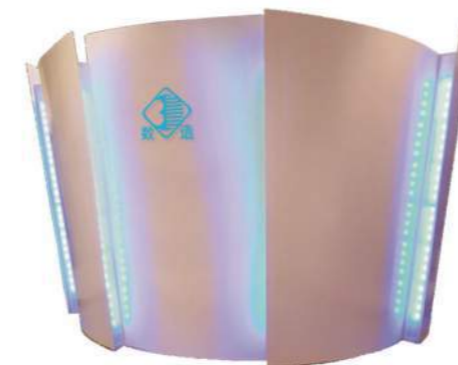


Face scanning of harelip patient

Figure image scanning

Star head scanning

3DSL laser body 3D scanners



3DSL laser body 3D scanners independently researched and developed by SHDM fill in the blanks of relevant products in China. It is constituted with 4 groups of laser scanning heads and linear guide. Light source adopts the red laser of 3-5 milliwatts which will cause no harm to human body. Since one laser camera can only scan and collect data of a sector, so 4 laser cameras are adopted for omni-dimension inspection of human body from all sides and scanning from head to foot simultaneously by 4 linear guides, and data of whole body can be got within 18 seconds.

Functions:

- 1.Scanning camera quantity: 4 pieces
- 2.Resolution: 300,000 pixels
- 3.Measuring method: laser line scanning
- 4.Scanning range: 1000mm *800mm*2000mm(Height)
- 5.Scanning precision: superior to 0.5%
- 6.Scanning point distance: 1-2.5mm adjustable
- 7.Total scanning points quantity of whole body: 0.1-0.8 million
- 8.Scanning speed: 50-120mm/s adjustable, typical time is 18 seconds for the whole body
- 9.Size of the equipment: 2m*2m*2.5m

Applications:

- 1.Clothes Industry
 - (1)Clothes customization
 - (2)Standard human model establishment
 - (3)Clothes 3D design
 - (4)Clothes e-commerce
- 2.3D animation
- 3.3D photo studio
- 4.Education and scientific research



- ★ Year 2000: Dr. Zhao won the National Award of 2nd Class of Scientific Progress
- ★ Year 2004: SHDM company was founded
- ★ Year 2014: Award of 2nd Class of Shanghai Technological Invention
- ★ Year 2014: To establish strategic cooperation with Stratasys
- ★ Year 2015: Participate in establishing the 3D printing standard in universities and colleges
- ★ Year 2016: Dr. Zhao became the committee member of National AM Committee
- ★ Year 2016: Won the title of high-tech enterprise
- ★ Year 2017: Listing in the stock market of NEEQ (Stock No.:870857)
- ★ Year 2017: Recognized as the academician expert workstation of 3D industry



Main Business

Sale of 3D printers and 3D scanners

- 3D scanners(3DSS series)
- Industrial SLA 3D printers(3DSL series)
- Desktop 3D printers (3DDP series)
- SLM metal 3D printers(3DSLIM series)
- Agent of all series of 3D printers of Stratasys

3D technical service

- 3D printing service
- 3D scanning service
- Reverse modeling service
- Whole car scanning (white body)

Cooperative Enterprises



Customers Example

