



# High precision Jewelry 3D Printer

## Stellar I

# Overview



Ultra-high precision  
 $\pm 0.03\text{mm}$  Deviation



Ultra-high resolution  
15120 x 6230 Pixels



Laser LED light source  
Light average is over 90%



Closed loop servo  
C5 ground ball screw



Automatic demoulding  
Model automatically detaches



Print&Cure  
Printing & curing integrated design



Auto resin addition  
Automatic resin addition and recycling



Adj light energy  
Exposure intensity is adj at any time



Constant temp system  
Print chamber constant temp control



Resin smell puri  
Resin odor puri filter system



7" touch screen  
75° rotating operation panel



Progress Indicator  
Print progress LED display



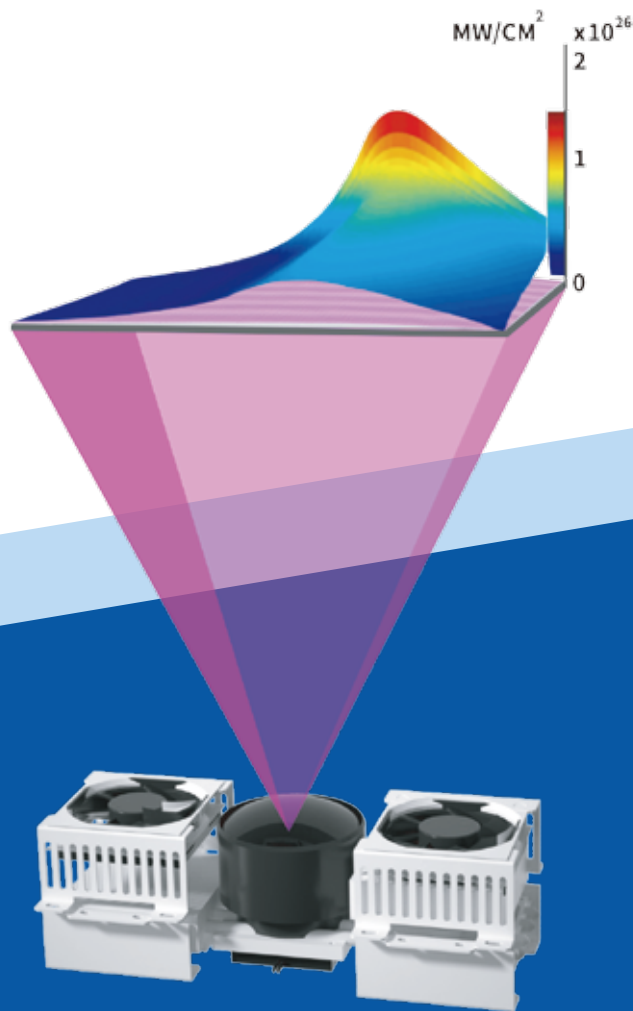
# High-precision servo-controlled linear module



- The Z-axis motion system uses C5-grade high-precision ground ball screw linear module
- Adopt closed-loop servo control motor, reciprocating accuracy error  $\leq 0.002\text{mm}$
- Make sure the printed model has no horizontal lines



# Laser LED optical engine

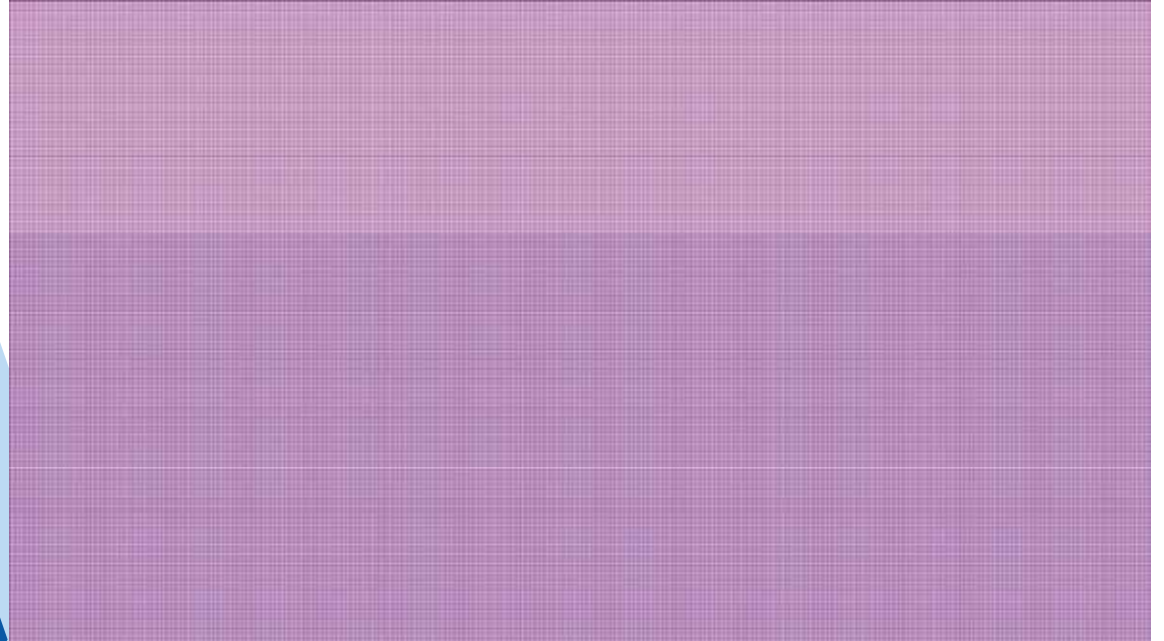


- The light source adopts high-power laser LED vertical light source, the light uniformity reaches more than 95%, the printing accuracy error is small, and the consistency reaches 95% ( $\leq 0.05\text{mm}$ )
- Light intensity can be adjusted on the software or machine to meet the printing needs of different resin materials

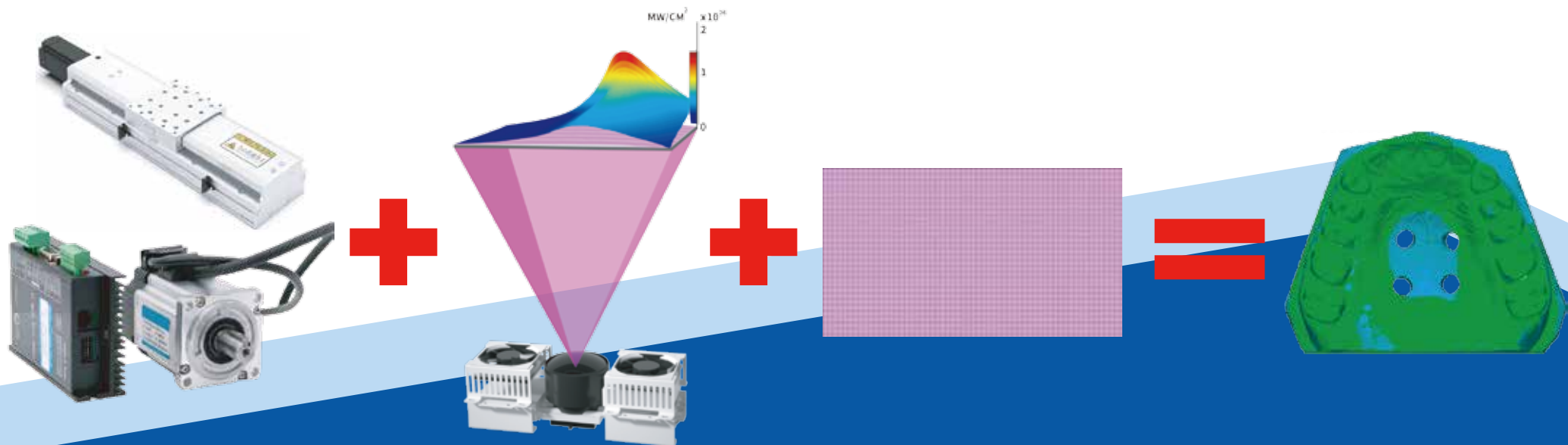
# Ultra-high resolution



- Using 16K ultra-high resolution monochrome digital imaging technology, the pixel size is less than 25um, the printed model size is more accurate and the surface is smoother and more delicate.
- The monochrome digital display screen adopts special technology, is UV-resistant and high-temperature-resistant, and has a service life of more than 2000 hours.



# High precision



- The high-precision Z-axis servo-controlled linear module and the high-uniformity laser LED optical engine, equipped with high-resolution imaging display technology, have become the core key to high-precision printing models and high-stability equipment.



# Auto resin adding system



- Are you still worried about the lack of resin during printing and causing printing failure?  
Are you still worried about the poor experience of changing resin?  
Stellar I 's automatic resin addition function can solve this problem with one click!
- Stellar I automatically adds resin and maintains a constant resin level throughout the printing process.
- When the resin tank is running low on resin, it will automatically stop adding resin.



# Auto resin recycling



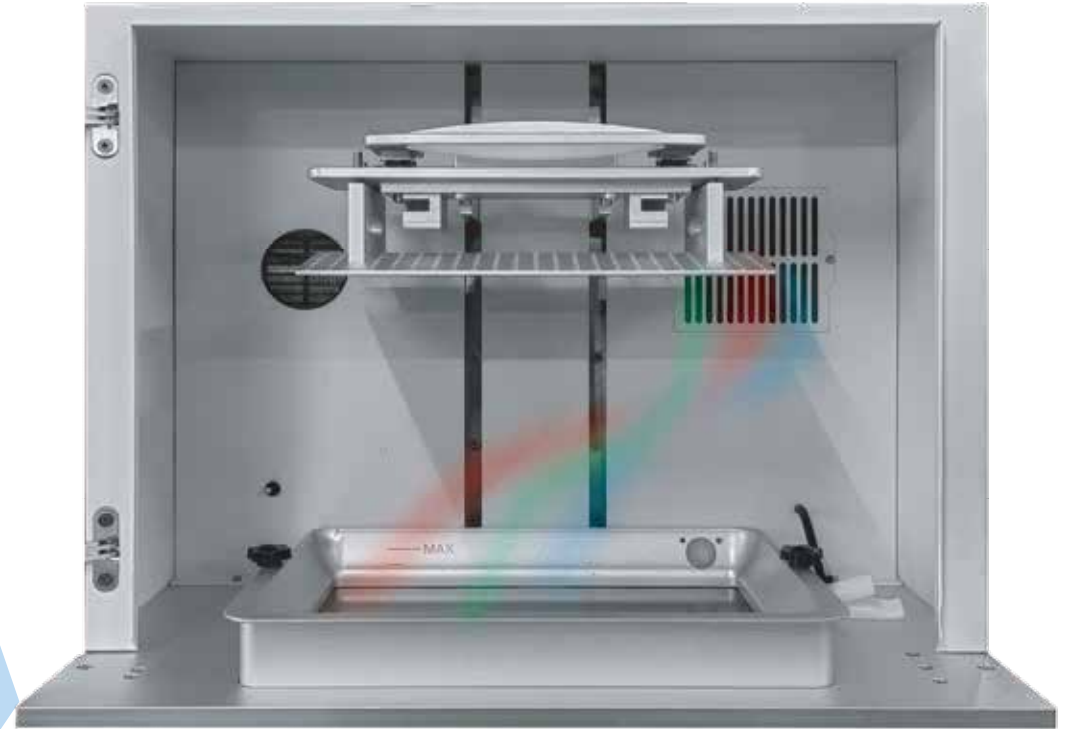
- The resin bottle has maximum and minimum liquid level detection sensors, which automatically start when the resin is recovered and automatically stop when the resin bottle is full to prevent the resin from flowing out.
- When the resin in the resin barrel is lower than the minimum liquid level, the adding function will be automatically turned off.



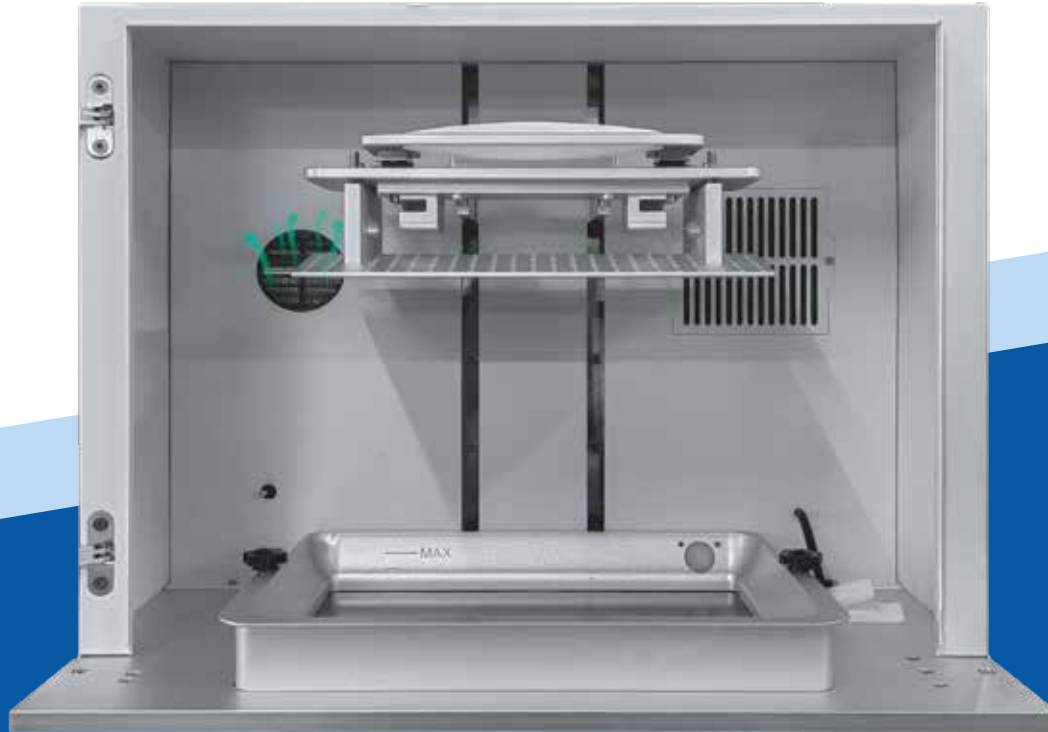
# Resin odor filter system



- Stellar I has a built-in resin odor purification system to reduce resin odor during use.
- The filter system adopts modular design, which is easy to replace and simple to operate.



# Printing chamber constant temp system



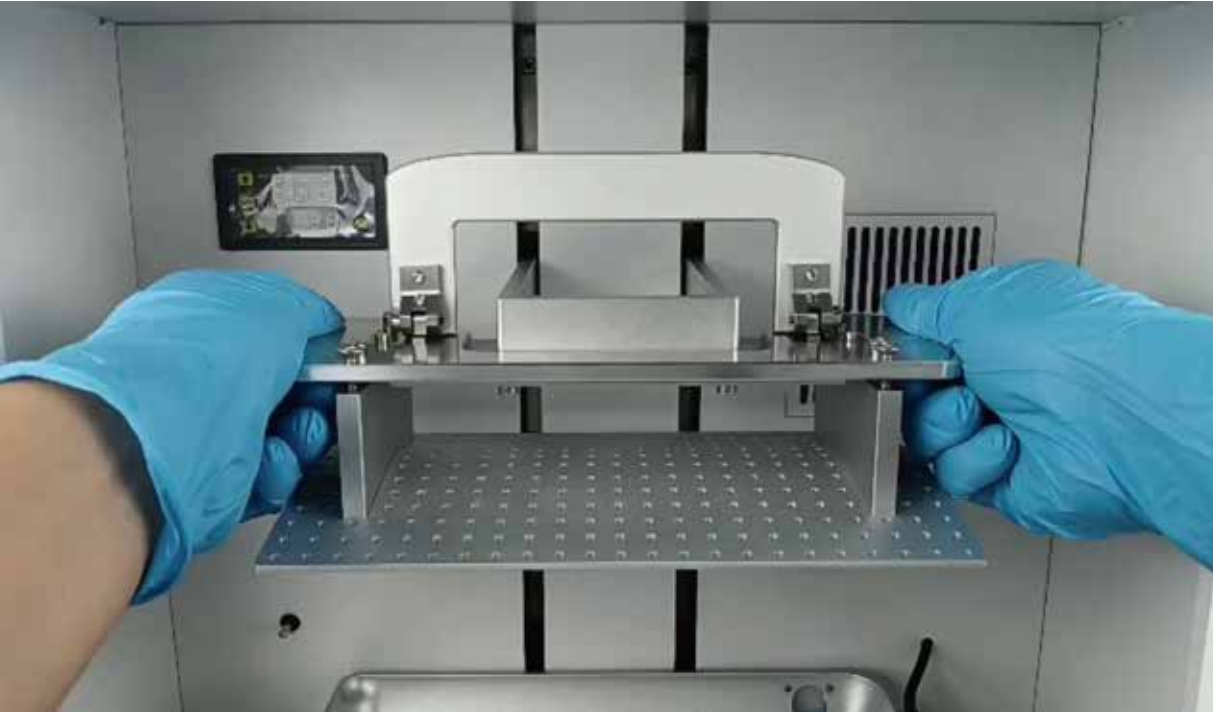
- The print chamber has a built-in 120W constant temperature heating system, and the maximum temperature can rise to 35
- Meet the needs of different countries, regions and environments

## 7" rotating touch screen

- Stellar 1 is equipped with a 7-inch high-definition capacitive touch screen. It has a user-friendly interface and is easy to operate.
- The operation panel can be folded in three levels and rotated freely at 75°, conforming to the ergonomic design



# No-leveling build platform



- The build platform is designed to be level-free, ready for use without leveling (standard configuration).

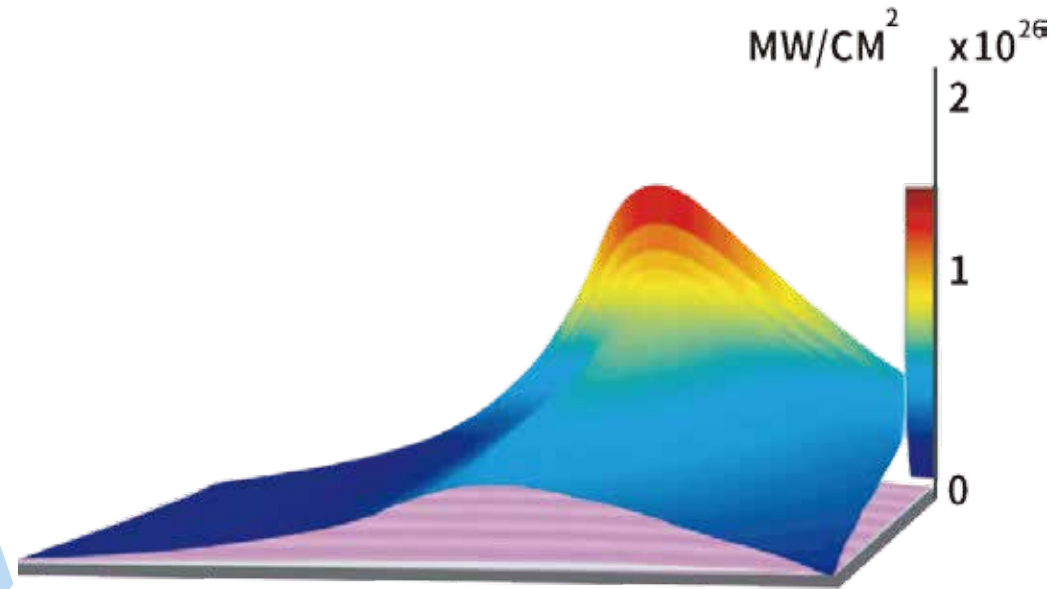
# Print & cure overall design



- The device is built-in and post-cured, which not only meets the functions, but is perfectly hidden in the body.
- Curing has dual modes of flashing/steady light, default time setting, and one-button start.
- High-power 360° rotation without dead angle for curing.

# Adjustable light energy

The laser LED light source adopts PWM control. The energy intensity can be adjusted according to the needs in the software and the machine to meet the exposure intensity requirements of different resin materials. The change of light intensity energy will not affect the light uniformity.



## Print progress light display



The printing progress LED indicator is designed on the front of the machine, so the printing process is clear at a glance.

# Mobile swivel castors



The Stellar machine is designed with a mobile pulley that can rotate 360° and has a built-in brake function, making it easy to move and fix.





# Machine size



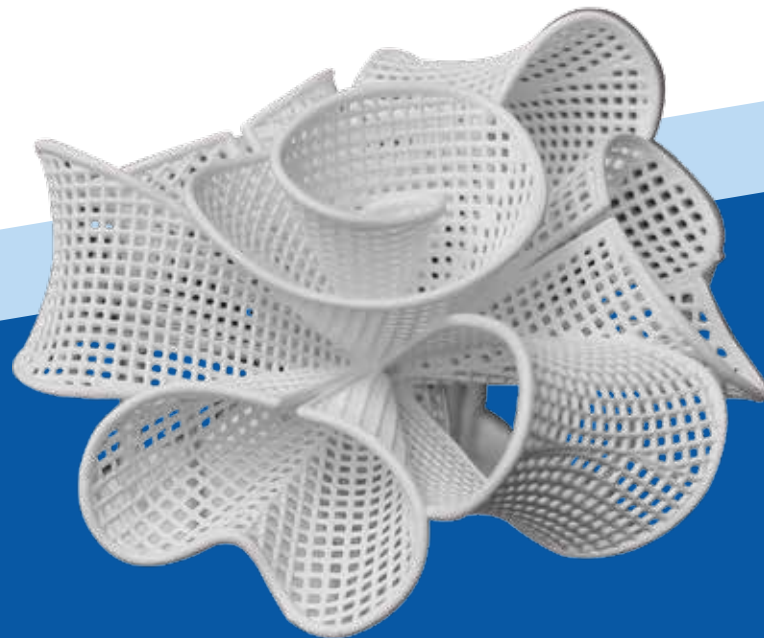
# Machine parameters



Name: Jewelry 3D Printer	Model: Stellar 1
Technical : surface exposure	Resin: compatible with general type 405nm resin
Build size: 223.78×126.98×200mm	Build speed: 30mm/H (max)
Slice thickness: 0.025~0.1mm	Dimensional accuracy: 0.3mm
Resolution: 13320×5120	Pixel size: 18*24um
wavelength: 405nm(385nm Option)	Light intensity: 5mw/cm2
Input voltage: 100~240V 50~60Hz	Total power: 600W
Machine size: 450(L)×313(W)×1425(H)mm	Package Size: 560(L)*570(W)*1525(H)mm
Machine Net Weight: 65kg	Total weight of machine: 88kg



Implantation guide



fixed restoration

# Application



Implantation restoration model



fixed

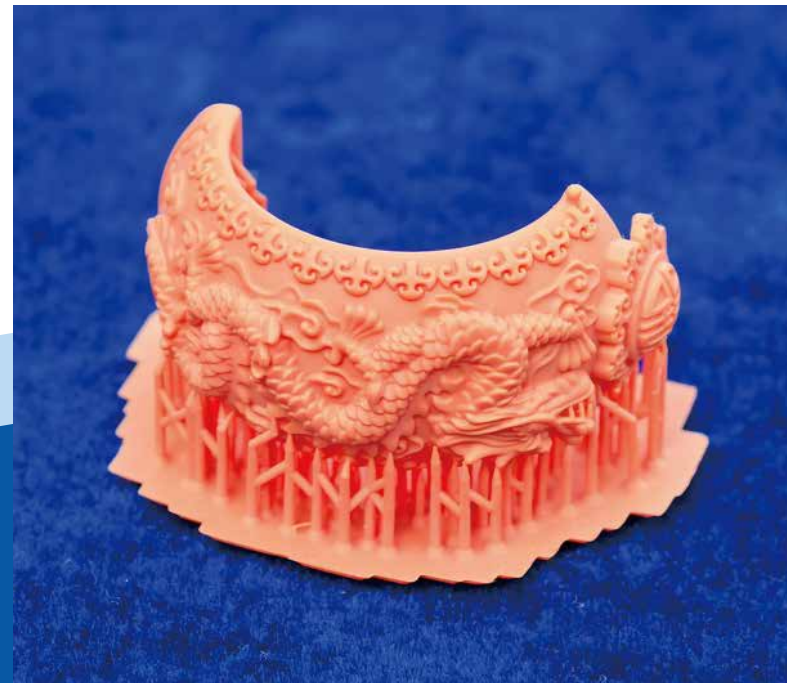


Implantation restoration model



fixed





Bracelet



# Shenzhen EMMAKE3D Technology Co., Ltd.

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Email: [official@emake3d.com](mailto:official@emake3d.com)

## about Us

eMake3D's vision is to innovate technology and change the future. We are committed to promoting the progress of the 3D printing industry with technological innovation as our purpose. We are willing to work with you to create a brilliant future!

# Application



Buddha head



bead flower



Product certification



CERTIFICATE

Anbotek

Product Safety

CERTIFICATE

Of Conformity

EU Council Directive 2014/53/EU

Electromagnetic Compatibility

Registration No.: A7582315C000001

Report No.: 582315C00000001

Applicant

Shenzhen Emake 3D Technology Co., Ltd.

Room B, 2/F, Bldg. 1, No. 2 Shengze Rd, Gaoxiong P., Ping. at Suburban, Longgang, Shenzhen

Product

Light curing 3D printer

Identification

Model No. Galaxy1 Pro, Galaxy2 Pro, Galaxy3 Pro, Galaxy4 Pro, Galaxy5 Pro, Galaxy6 Pro, Galaxy7 Pro, Galaxy8 Pro, Galaxy9 Pro, Galaxy10 Pro

Trade Mark

Rating

100-240VAC, 50-60Hz, 220W

Test Standards

EN 60950-1:2012+A1:2013  
EN 60950-2:2013  
EN 60950-3-1:2013+A1:2013  
EN 60950-3-2:2013+A1:2013  
EN 60950-3-3:2013+A1:2013

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex II of Council Directive 2014/53/EU, in the latest amended version, referred to EN60950. This certificate does not imply endorsement of the production and does not permit the use of Lab's logo. The applicant of the certificate is authorized to use this certificate in connection with its declaration of conformity in article 18 of the Directive.

CE

The CE Marking may only be used if all relevant and effective EU Directives are complied with

CE

Anbotek (Shenzhen) Compliance Laboratory Limited

Room 502, Building 2, No.222 Xixun Road, Shengze District, Guangdong, Guangdong, China

Tel: (8620) 62676727

Email: service.gd@anbotek.com

CERTIFICATE

Anbotek

Product Safety

Proof of Compliance under

FCC Supplier's Declaration of Conformity

Federal Communications Commission

Registration Number: 054111

Applicant

Shenzhen Emake 3D Technology Co., Ltd.

Room B, 2/F, Bldg. 1, No. 2 Shengze Rd, Gaoxiong P., Ping. at Suburban, Longgang, Shenzhen

Equipment (Global Test)

Light curing 3D printer

Test Model No.

Galaxy1

Reference Model No.

Galaxy1 Pro, Galaxy2 Pro, Galaxy3 Pro, Galaxy4 Pro, Galaxy5 Pro, Galaxy6 Pro, Galaxy7 Pro, Galaxy8 Pro, Galaxy9 Pro, Galaxy10 Pro

Trade Name

Power Supply

100-240VAC, 50-60Hz, 220W

Test Method(s)

FCC 47 CFR Part 15 Subpart B: 3025

File Number

A7582315C0000001

Report Number

582315C00000001

It is hereby confirmed to comply with the requirements set out in the FCC of CFR Part 15 Subpart B and Class Part 15 and the measurement procedures described in this report shows the maximum emission levels exceeding from equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

FCC

Certified by

Kanghong Jin

Wen 04, 2023

Date

Anbotek (Shenzhen) Compliance Laboratory Limited

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Product Safety

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Of Conformity

Low Voltage Directive 2014/53/EU

Registration No.: A7582315C000001

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Product

Light curing 3D printer

Identification

Model No. Galaxy1 Pro, Galaxy2 Pro, Galaxy3 Pro, Galaxy4 Pro, Galaxy5 Pro, Galaxy6 Pro, Galaxy7 Pro, Galaxy8 Pro, Galaxy9 Pro, Galaxy10 Pro

Trade Mark

Rating

Input: 110-240VAC, 50/60Hz, 220W

Test Standards

EN 60950-1:2012+A1:2013

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with Low Voltage Directive 2014/53/EU relating to electrical equipment designed for use within certain voltage limits. The certificate does not imply endorsement of the entire production of the product. The applicant of this certificate is authorized to use this certificate in connection with its declaration of conformity specified in Article 18 and Annex II of the Directive.

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