

W0500067

ShapeCure D Series

UV Curing Station

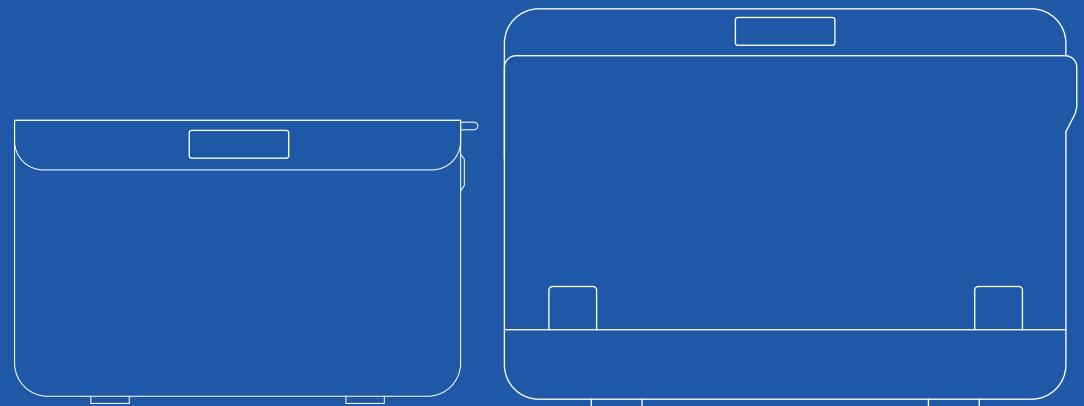
User Manual V1.0

RAYSHAPE

www.rayshape3d.com



in | | | |



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Contact the sales team for more information

RAYSHAPE

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General Information

- Information
- Safety Guidelines

Instructions

This manual contains the technical information, safety guidelines, and detailed operation instructions for ShapeCure D series UV curing starion. Please keep it properly.

Please read this manual carefully before using the device. Failure to comply with the safety and operating instructions required by this manual will result in consequences that are the sole responsibility of the user.

All information contained in this manual is up to date at the time of printing, but may be subject to change without notice as products are upgraded.

The images used in this manual may differ from your device due to differences in specific models and specifications.

If you have any improvement or modification opinions on this document and the product, or If there is any error, please inform us in time. Thank you for your valuable comments on our products.

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Instructions of mark



Warning : Could result in serious personal injury or equipment damage if it was failed to comply with this requirement.



Attention : Could result in minor personal injury or equipment damage if it was failed to comply with this requirement.



Important Information: The normal operation of the device or the quality of printed models would be influenced if it was failed to comply with this requirement .



Protection requirements: Corresponding precautions should be taken as required.



Hazard indication: Description of specified hazard.

Safety Guidelines

Before operating with the device, please read the following safety guidelines to identify the potential risks which you may experience during the usage. When using the printer, make sure to comply with the related requirement defined in the manual already and take appropriate precautions in advance.

Any operation which was failed to fulfill with the requirement defined in the safety guidelines may result in personal injury or equipment damage, and the corresponding consequences should be taken by the users.



The device shall be operated by professional staff

Operators must carefully read and understand the safety guide and operation manual, then operate the device correctly as required.



Keep away from children

Please keep the device, resin material and other accessories out of the reach of children.



Disassembly or modification is strictly prohibited

It is strictly prohibited to disassemble or modify the device without authorization. Do not use accessories which are not designated officially.



Risk of electric shock

! The specification of power must meet the operating requirements of the device.

! A grounded electrical outlet should be applied.

! Replaced with a new one before usage if it was found that the power cable was aging or damaged.



Risk of UV exposure

The device is designed based on the principle of UV light curing and there is UV light available inside the device during operation, the risk of UV exposure shall be avoided accordingly.

! When the device is working, please keep protective cover/ door closed normally.

! If any operation or maintenance work should be proceeded while the device is working, the anti-UV goggles shall be worn accordingly.

Safety Guidelines



Risk of scalding

LED tubes will be hot after long time working, make sure to avoid direct contact.



Wear protective gloves

! Please wear disposable device gloves when operating the devices to avoid direct contact with the resin material.



Wear goggles

! If any operation or maintenance work is needed to proceed while the device is working, anti-UV goggles should be worn accordingly.



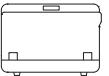
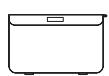
Good ventilation

! Areas for the device installation should be well ventilated.

Technical Specification

Product Information

· Technical Specification



Main Parameters

Curing Volume	Diameter 180mm x height 100mm	Diameter 300mm x height 130mm
Wavelength	405 nm	
LED Power	150W	270W
Curing Method	Uniform exposure with LED array, turntable and inner reflector	

Compatibility

Printers	Dental series resin printers
Resins	Dental series resins

Hardware

MCU	STM 32 ARM	
Touch Screen	3.5" color touch screen	
Input Voltage	100~120 VAC, Max 2.4 A, 50/60 Hz 200~240 VAC, Max 1.4 A, 50/60 Hz (Depending on the country/region)	100~120 VAC, Max 4.2 A, 50/60 Hz 200~240 VAC, Max 2.5 A, 50/60 Hz (Depending on the country/region)
Rated Power	Max. 200W	Max. 350W

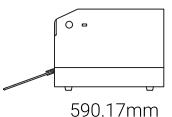
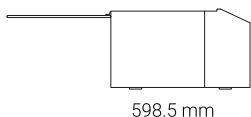
Software

Curing Setting	Programmable
Firmware Update	Via USB driver
Languages	English / Chinese

Size & Weight

Device Size	372 x 342 x 793 mm	412 x 404 x 286 mm
Device Weight	8 kg	15 kg
Packaging Size	362 x 392 x 253 mm	462 x 454 x 326 mm
Packaging Weight	10 kg	17 kg

Device Size
(with door open)



598.5 mm

590.17mm

Unpacking

- Packing List
- Equipment



ShapeCure D



ShapeCure D+

Packing List

ShapeCure D

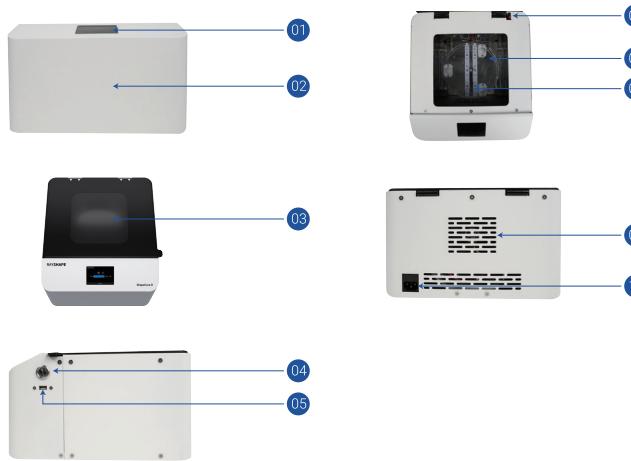
No.	List	Quantity
1	ShapeCure D	1
2	Power cord	1
3	Turntable	1

ShapeCure D+

No.	List	Quantity
1	ShapeCure D+	1
2	Power cord	1
3	Turntable	1

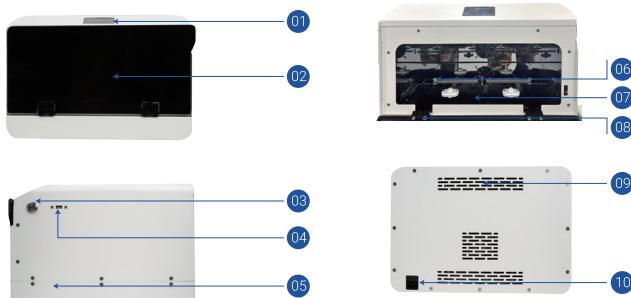
Equipment

ShapeCure D:



No.	Description
01	Touch screen
02	Enclosure
03	Cover
04	Power button
05	USB port
06	Cover sensor
07	Turntable
08	LED tubes
09	Heat emission hole
10	Power port

ShapeCure D+:



No.	Description
01	Touch screen
02	Cover
03	Power button
04	USB port
05	Enclosure
06	LED tubes
07	Turntable
08	Cover sensor
09	Heat emission hole
10	Power port

Installation

Installation



Platform

ShapeCure D: The platform should be more than 50 cm both in width and in depth, and the load-bearing capacity shall be more than 15 kg.

ShapeCure D+: The platform should be more than 60 cm both in width and in depth, and the load-bearing capacity shall be more than 30 kg.



Connection

The power interface is located on the back of the device.



Make sure that a grounded power outlet was applied.

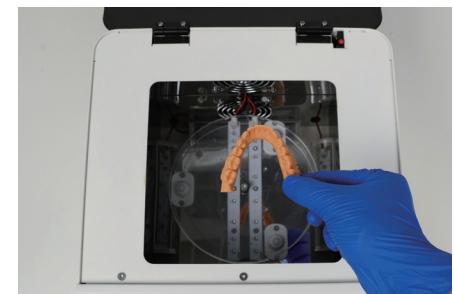


Power on/off

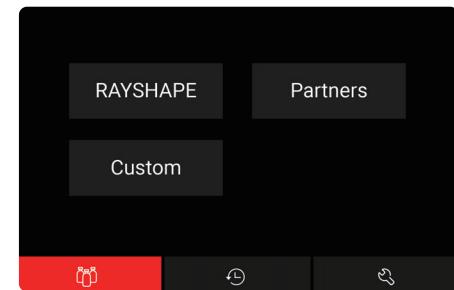
After connecting to the power supply, click the power button to turn on the device, and the indicator will be on. Click again to turn off the printer, and the indicator will be off.

Operation

- Operation
- Cautions

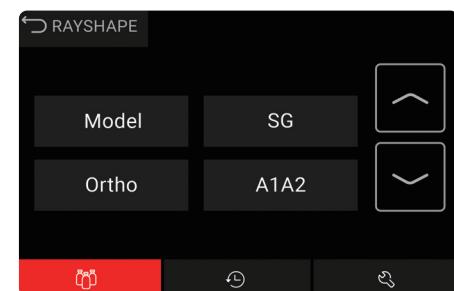


1. Curing for official resins



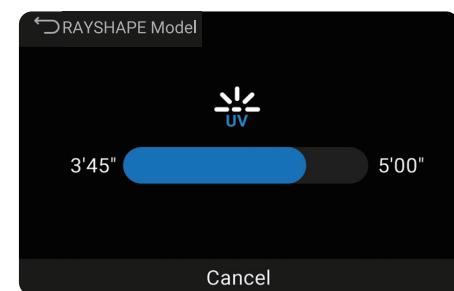
Step 1:

Select "RAYSHAPE" option on the main menu.



Step 2:

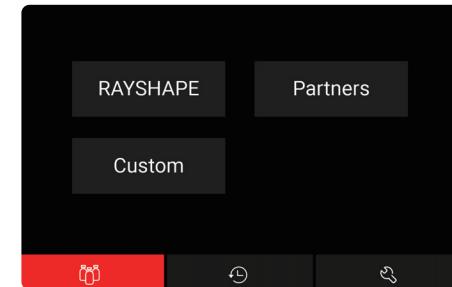
Find the right resin option.



Step 3:

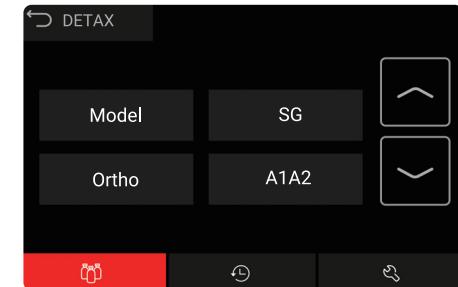
Click on the resin option to start curing.

2. Curing for 3rd party resins



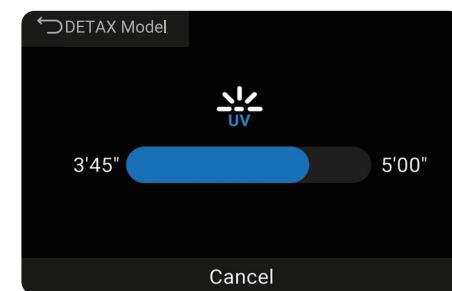
Step 1:

Select "Partners" option on the main menu.



Step 2:

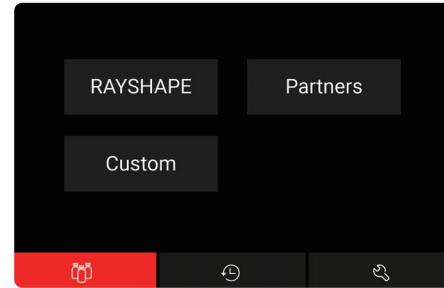
Find the right resin option.



Step 3:

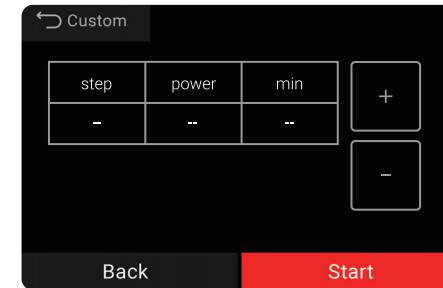
Click on the resin option to start curing.

3. Curing with customized setting



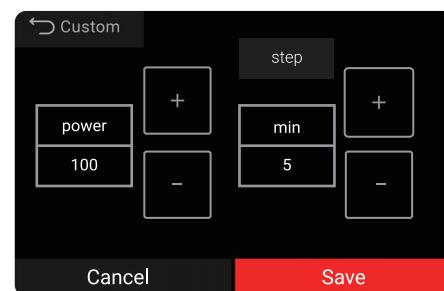
Step 1:

Select "Custom" option on the main menu.



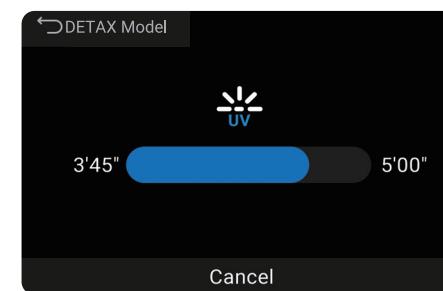
Step 2:

Click on "+"/"" button to add/delete curing steps.



Step 3:

Click on "+"/"" button to adjust curing power and time settings, and save before exit.



Step 4:

Click on "Start" button to start customized curing process.



Completion of curing

When countdown ends, take out printed parts and wait for them to cool.

The placed part in the curing chamber should not obstruct the rotation of the turntable.

The uniform curing of the printed part is guaranteed by the rotation of the turntable. Be caution that the turntable will be damaged if it is stuck during working.

Do not work continuously for a long time.

It is recommended to stop the device for about 20 minutes after 1 hour curing.

Avoid direct sunlight.

Place the device in the area where is cool, dry and well ventilated.

Replace brokedown LED tube.

If LED tube goes out when working, try to re-plug the tube first. If the issue is not resolved, please replace the tube with a spare one.

Service

- . Warranty
- . Contact
- . Warranty Card

1. Warranty period

ShapeCure D series post-curing machines are provided with 12 months of warranty and lifetime maintenance services.

2. Preconditions

- The equipment failure is not caused by human reasons or force majeure.
- A valid proof of purchase.

3. Scope

Appearance parts such as door/cover, enclosure and turntable shall be deemed to be free of quality problems upon sign-off and are not included in the list of warranty components.

4. Service

For warranty service requests which are complied with the warranty conditions, the supplier should bear the cost for spare parts, repairing and transportation.

5. Non-warranty circumstances:

- Equipment failure caused by human reasons or force majeure;
- Failure to provide valid proof of purchase;

6. Maintenance services

The supplier would offer maintenance service to the request which does not comply with the warranty condition or is out of the warranty period. Still, the requester should undertake the cost related to spare parts and transportation accordingly.

7. Service response

The supplier will provide online technical support to the requesters within 24 hours in the time period of 09:00- 17:00 on working days.

Contact

For more information:

Sales Inquiries

📞 400-0983356

✉️ sales.os@rayshape3d.com

Comments and suggestions:

✉️ feedback@rayshape3d.com

Your feedback is greatly appreciated, and your comments and suggestions will be sent to our sales, R&D, and technical support departments to help us provide better products and services.

Warranty Card

1 Year Warranty Card

This warranty card, along with the valid invoice, will be guaranteed for one year after the purchase. For the warranty details, please refer to the product user manual.

Reseller Name : _____ Invoice NO. : _____ Purchase Date: _____

Product Model : _____ Serial Number : _____ Dealer's Seal: _____

* This is the basic proof of the warranty. Please fill in it carefully and hand it over to the customer for safekeeping.

Customer Name : _____ Contact: _____ Phone Number: _____

Address: _____ Service Evaluation: Excellent Good Normal Bad

Customer Signature : _____