



 **NOBIL-3D**

CS02

3D Printer User Manual

3D打印机用户使用手册

V3.0

Dear Consumers,

Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our teams will always be ready to render you the best services. Please contact us via the phone number or e-mail address provided at the end when you encounter any problem with the Printer.

For a better experience in using our product, you can also learn how to use the printer in the following ways:

View the accompanied instructions and videos in the U disk.

Visit our official website www.hugedental.com to find relevant software/hardware information, contact details and operation and maintenance instructions.

尊敬的用户：

感谢您选择山东沪鸽的产品。为了您使用方便，请您在使用之前仔细阅读本说明书，并严格按照说明书的指示进行操作。

山东沪鸽团队时刻准备为您提供优质的服务。在使用过程中无论遇到什么问题，请按照说明书结尾所提供的电话、邮箱与我们进行联系。为了您能够更好地体验我们的产品，您还可以从以下方式获取设备操作知识：

随机使用说明：您可以在U盘内找到相关使用说明及视频。

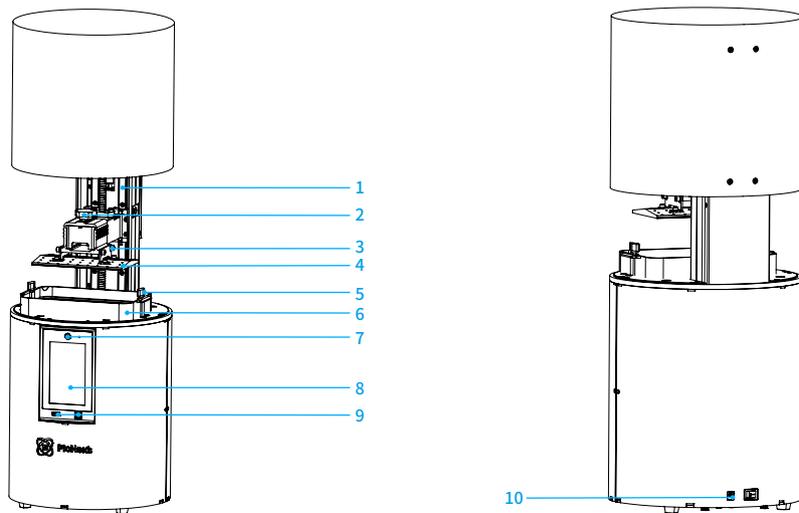
您还可以登陆 [山东沪鸽官网\(www.hugedental.com\)](http://www.hugedental.com)寻找相关软硬件、联系方式、设备操作、设备保养等信息。

NOTES 使用须知

- 1 Do not use the printer any way other than described herein in order to avoid personal injury or property damage.
- 2 Do not place the printer near any heat source or flammable or explosive objects. We suggest placing it in a well-ventilated, low-dust environment.
- 3 Do not expose the printer to violent vibration or any unstable environment, as this may cause poor print quality.
- 4 Please use recommended resin to in case damage of machine.
- 5 Do not use any other power cable except the one supplied. Always use a grounded three-prong power outlet.
- 6 Please do not open the plastic cover during usage, otherwise the printing will be interrupted.
- 7 Do not wear cotton gloves when operating the printer. Such cloths may become tangled in the printers moving parts leading to burns, possible bodily injury, or printer damage.
- 8 Please wait a moment after the print is finished. And please wear gloves to take out the print by tools.
- 9 Clean the printer frequently. Always turn the power off when cleaning, and wipe with a dry cloth to remove dust, adhered printing plastics or any other material off the frame, guide rails, or wheels. Use glass cleaner or isopropyl alcohol to clean the print surface.
- 10 Children under 10 years should not use the printer without supervision.
- 11 This machine is equipped with a security protection mechanism. Do not manually move the nozzle or printing platform mechanism manually while booting up, otherwise the device will automatically power off for safety.
- 12 Users should comply with the laws and regulations of the corresponding countries and regions where the equipment is located (used), abide by professional ethics, pay attention to safety obligations, and strictly prohibit the use of our products or equipment for any illegal purposes. PicoCreat will not be responsible for any violators' legal liability under any circumstance.

- 1 请勿尝试任何使用说明中没有描述的方法来使用本机，避免造成意外的人身伤害和财产损失；
- 2 请勿将本机放置在易燃易爆物中或高热源附近，请将本机放置在通风、阴凉、少尘的环境内；
- 3 请勿将打印机放置在振动较大或者其他不稳定的环境内，机器晃动会影响打印机打印质量；
- 4 建议使用厂家推荐耗材，以免造成机器损坏；
- 5 请勿在安装过程中使用其他产品电源线代替，请使用本机附带的电源线，电源插头需接插在带有地线的三孔插座；
- 6 请勿在操作打印机工作时打开打印机面盖，以免影响打印；
- 7 请勿在操作打印机时戴棉手套，以防可动部件对人身造成卷入挤压和切割伤害；
- 8 在打印完后稍等片刻，带上手套后再取下打印平台，借助工具将平台上的模型取下，清理时请勿直接用手触摸；
- 9 常做产品维护，定期在断电的情况下，用干布对打印机做机身清洁，拭去灰尘和粘结的打印材料、导轨上的异物；
- 10 年龄在10岁以下的儿童，请勿在没有人员监督的情况下使用本机，以免造成人身伤害；
- 11 本机设有安全保护机制，请勿在开机状态下手动快速移动喷头或打印平台机构，否则设备会自动断电机保护；
- 12 使用者应遵守设备所在地（使用地）相应国家、地区法律法规，恪守职业道德，注意安全义务，严禁将我司的产品或设备使用在任何非法用途上。如有违反者所应承担的相关法律责任我司概不负责。

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- 1 Limit switch
限位开关
- 2 Metal screw
平台手拧螺丝
- 3 Leveling screw
调平螺钉
- 4 Buliding platform
成型平台

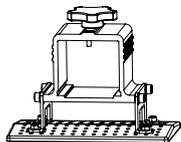
- 5 Metal screw
料槽手拧螺丝
- 6 Resin vat
料槽
- 7 Thumb silkscreen
拇指丝印
- 8 Touch screen
显示屏

- 9 USB port
USB接口
- 10 Power socket
电源接口

Basic Parameters 基本参数

Model 型号	CS02
Software 软件	HUGE STUDIO
Operation system 切片软件操作系统	Win7 or above X64, Mac Win7及以上64位系统（不支持32位），支持Mac
Nominal power 额定功率	60W
Rated current 额定电流	2.5A
Rated Voltage 额定电压	DC24V
Support resin 支持树脂	Dental model resin, Common rigid photosensitive resin, Standard resin, High hardness, High toughness, Biocompatible Resin, Castable Wax Resin. 牙模树脂、普通刚性光敏树脂、标准树脂、弹性树脂、高硬度、高韧性树脂、生物相容性树脂、铸造蜡树脂
Light source configuration 光源配置	High power DLP module (wavelength 405nm) 高功率DLP 模组(波长405nm)
Print method 打印方式	U disk U盘 / WIFI
X/Y-axis resolution X、Y分辨率	0.062mm 2560*1440
Printing layer thickness 打印层厚	0.025-0.1mm
Print speed 打印速度	1-4S/ layer 即每层打印时间
Display screen 显示屏幕	5inch 5英寸
Print size 成型尺寸	158x89x100mm (lengthxwidth x height) 158x89x100mm（长x宽x高）
Machine size 设备尺寸	280x280x587mm
Package size 包装尺寸	350x350x657mm

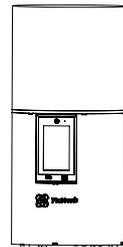
3. Package Content 零部件清单



1 Print platform | 打印平台 x 1



2 Resin vat | 料盘 x 1



3 3D printer | 打印机 x 1

Tool list 工具包清单



1 U disk x 1
U盘



2 Screwdrivers x 1set
螺丝刀工具包



3 Brush x 1
油漆刷



4 Plastic blade x 1
塑胶铲刀



5 Resin filter x 4
纸漏斗



7 Metal blade x 1
金属铲刀



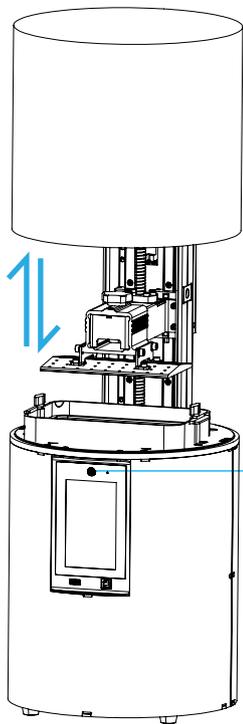
8 Power cord x 1
电源线



9 Disposable latex
gloves x 1
一次性乳胶手套

Tips: the above accessories are for reference only, in kind prevail! 注意: 以上配件仅供参考, 请以实物为准!

4. Instructions for use of automatic cover 自动上罩使用说明



Thumb silkscreen
拇指丝印

Open state | 开盖状态

After taking out the device from the packing box, connect the device to the power supply and wait for it to start. After the boot interface is displayed, click the thumb silkscreen on the top of the touch screen with your finger. When you hear a beep, the upper cover of the device will rise (for example, when the upper cover goes down for the first time It is the zeroing operation. After the upper cover is reset to zero, click the thumb silkscreen again, and the upper cover will rise).

Movement rules of the upper cover: when the bottom limit switch detects that the limit sheet has not returned to zero, the priority is to return to zero, that is, the upper cover goes down, and when the limit sheet touches the limit switch, it is determined that the zero return is successful, and click the thumb silkscreen again, the upper cover runs upwards.

将设备从包装箱取出后，设备连接电源等待开机，待开机界面显示后，手指点击触摸屏顶部拇指丝印，待听到滴的一声，设备上罩即会上升（如第一次上罩往下走即为归零操作，待上罩归零后再点击一次拇指丝印，上罩即会上升）。

上罩运动规则：底部限位开关检测限位片未归零的情况下优先归零，即上罩往下运行，等限位片碰到限位开关以后判定为归零成功，再次点击拇指丝印后，上罩往上运行。



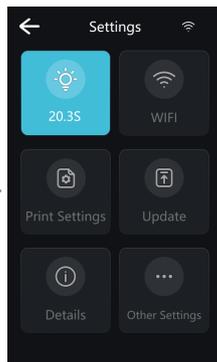
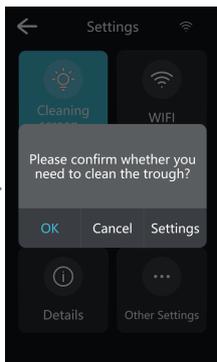
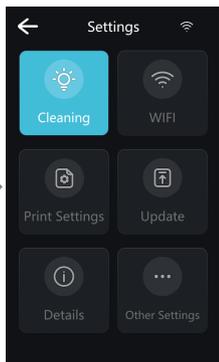
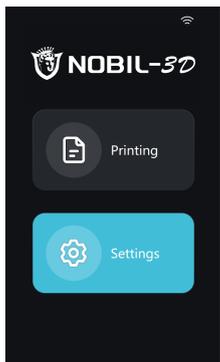
Note:

1. During the rising and falling process of the upper cover, click the thumb silkscreen upper cover movement to pause, click the thumb silkscreen again, and the movement will continue.
2. In process of the upper cover, long press the thumb silkscreen and the upper cover will be forced to move zero (that is down movement)
3. Please ensure to close the upper cover before printing, and please don't open the upper cover during printing and avoid being layered patterns on the printed model.

注意事项：

1. 上罩升降过程中，点击拇指丝印上罩运动会暂停，重新点击拇指丝印，运动继续。
2. 上罩上升过程中，长按拇指丝印，上罩会强制归零（即往下运动）。
3. 打印前请确保关闭上罩，打印过程中请不要打开上罩，防止打印模型出现层纹问题。

5. Interface Information 界面信息



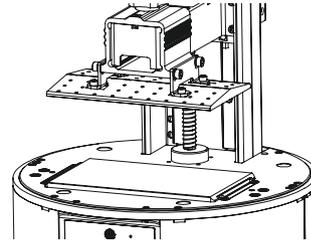
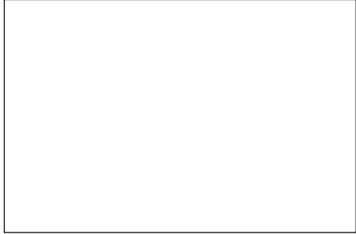
Screen clearing: material tank cleaning;
Z-axis movement: Back to Zero and leveling;
Print settings: printing parameters, device control, feeding system and Pre-Heat;
System settings: set WALN, set language and region, upgrade firmware version (local upgrade & network upgrade); view device information, restore factory settings.



清屏: 点击可进行料槽清理;
Z轴运动: 点击可设置归零和调平;
打印设置: 点击可进行打印参数、设备控制、供料系统、成型室加热等功能设置;
系统设置: 点击可进行设置WALN、设置语言及区域、升级固件版本 (本地升级&网络升级)、查看设备信息、恢复出厂设置等功能设置。

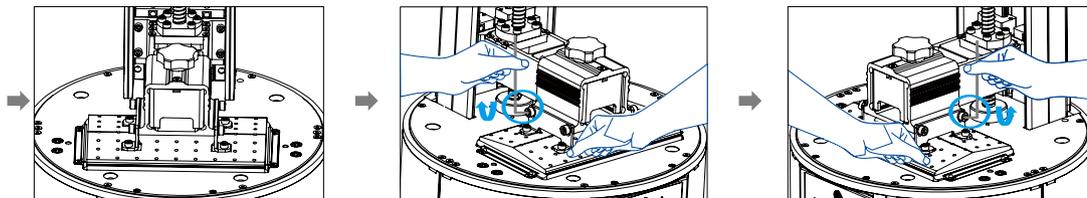
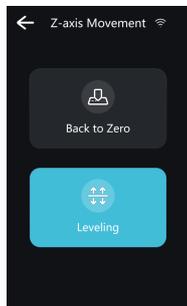


Note: Check whether the light source is normal when clearing the screen. The UI is only for reference only and shall be subject to the actual UI.
注意: 清屏时检查光源是否正常。界面仅供参考, 实际以固件UI为准。



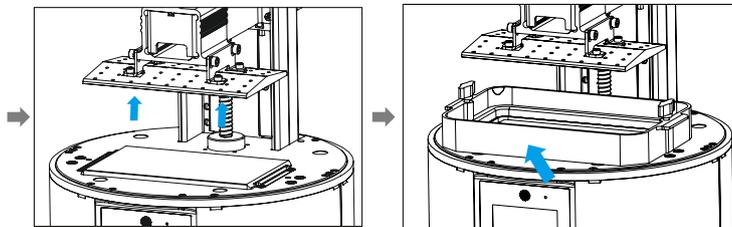
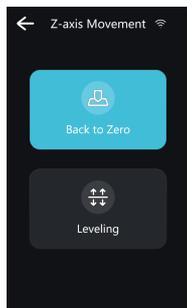
6. Level Platform 调平台

If the platform does not stick to the print screen, do as the following:
如果没有贴紧打印屏, 请进行如下操作:



1. After unscrewing the leveling screws, press "Leveling" to keep the platform and the print screen parallel.

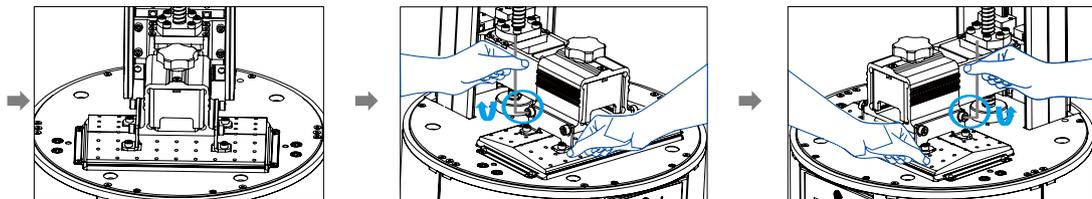
2. Gently press the platform and tighten the 4 screws clockwise and diagonally, and the platform will be successfully leveled.



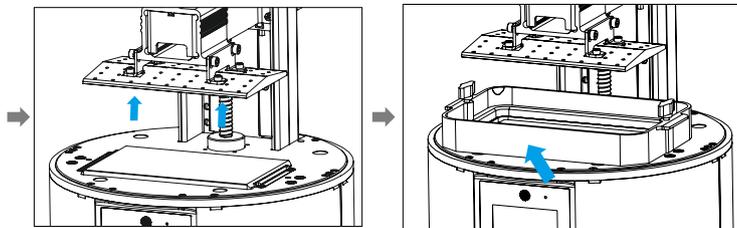
3. Press "Auto-homing", move up the z-axis to a proper position, and then tighten the fixing screws at both ends of the resin vat.

6. Level Platform 调平台

If the platform does not stick to the print screen, do as the following:
如果没有贴紧打印屏, 请进行如下操作:

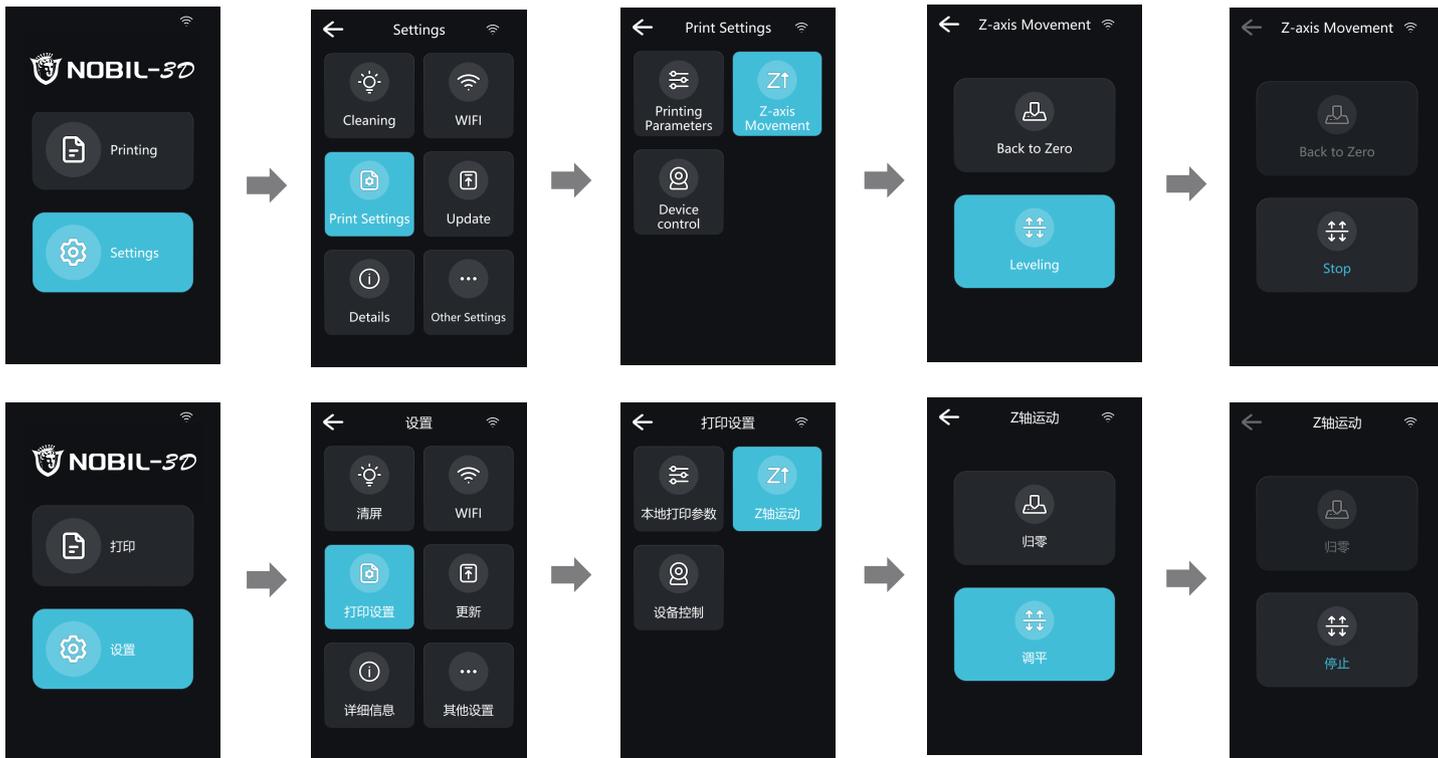


1. 拧松调平螺丝后, 按触摸屏“调平”, 将打印平台贴合在打印屏上。
2. 轻轻压平台两端, 顺时针对角拧紧4个平台螺丝, 即平台调平成功。



3. 按触摸屏“归零”, 控制Z轴上移, 至合适位置, 放入料盘, 对准料盘两端螺孔后, 旋紧两端的料盘固定螺丝。

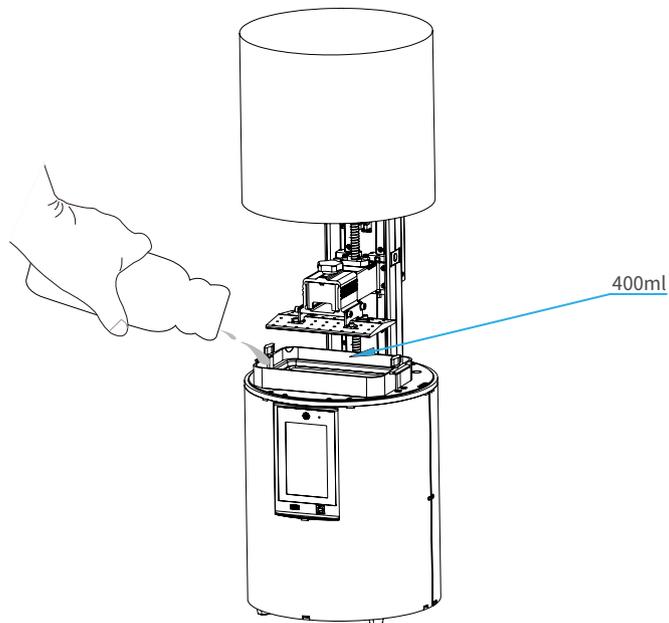
6. Level Platform 调平台



Note: The UI is only for reference only and shall be subject to the actual UI.
注意：界面仅供参考，实际以UI为准。

7. Load Resin 装料

Pour the UV photosensitive resin into the resin vat. The tank capacity scale is 400ml.
将3D打印机 UV 光敏树脂倒入料盘, 槽位容量:400ml。



Tips:How to change resin:

Take out the resin vat slowly, pour out the remaining resin into a container, clean the resin vat, pour in new resin, and then install the resin vat to the machine.

提示:如何更换耗材?

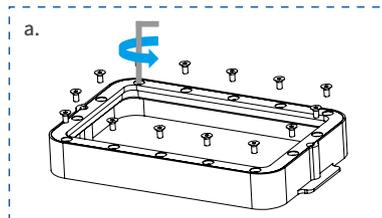
将料盘缓缓取出,把剩余树脂倒入容器,清洗干净料盘,重新倒入新树脂,再把料盘安装到机器即可。



Caution :Resin may cause skin irritation or an allergic skin reaction. Please wear gloves before use to avoid direct contact with the skin.

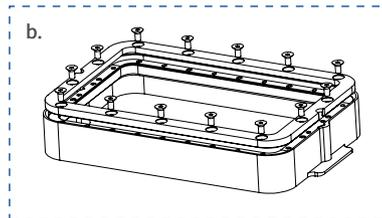
警示:请戴上手套方可进行装料,光敏树脂为刺激性材料,避免接触到皮肤。

Installation steps 安装步骤



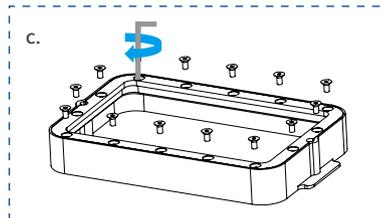
a. First, remove the 14 screws at the bottom of the vat and take down the old release film.

首先拆卸料槽底部的14颗螺丝,取出坏的离型膜。



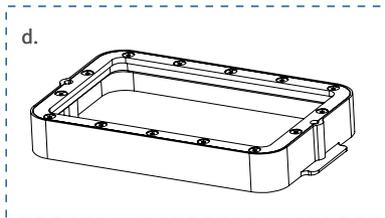
b. Prepare the new release film, peel off the the protective films on both sides of the release film.

撕掉新的离型膜两个面上的保护膜。



c. Place the clamping, install 14 countersunk head screws and use the opposite angle to tighten.

放好压圈, 安装14颗沉头螺丝并采用对角的方式拧紧。



d. The installed release film is as shown.

安装好的离型膜如下图。

Parameters 规格参数



尺寸:216x158mm
(Size)

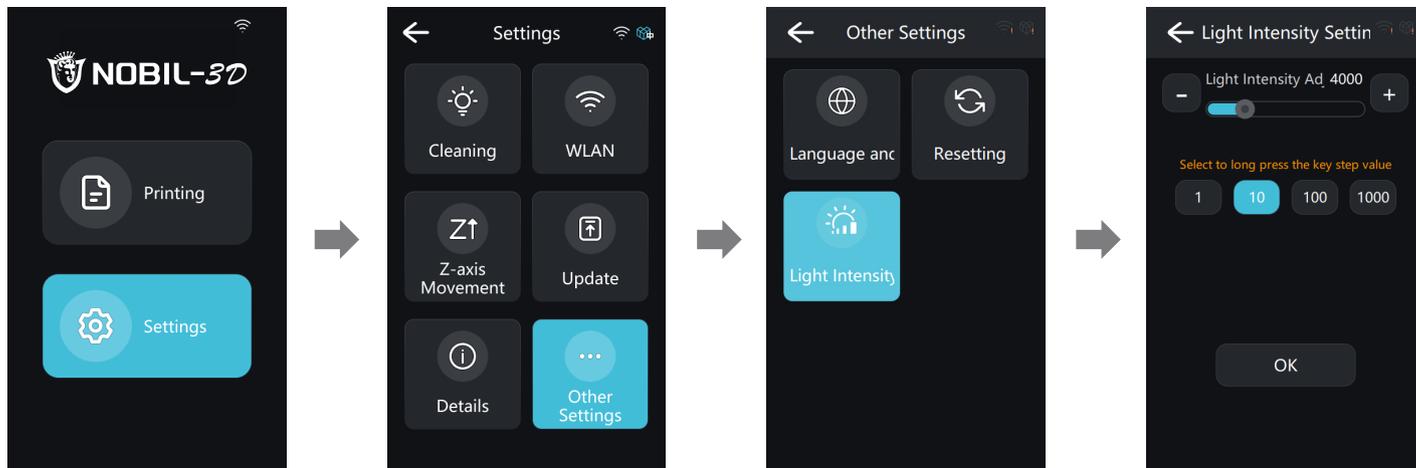


厚度:0.15-0.2mm
(Thickness)



透光率:95%
(Light Transmittance)

9. Light intensity setting 光强设置



Warning: The light intensity of the machine has been adjusted before leaving the factory. Generally, it does not need to be adjusted. After the machine has been used for a long time, if it is found that the light intensity does not meet the needs of use, it can be adjusted by itself.

警告: 机器出厂前已调好光强, 一般不需要调整, 机器长期使用后, 如发现光强不符合使用需求, 可自行调节。



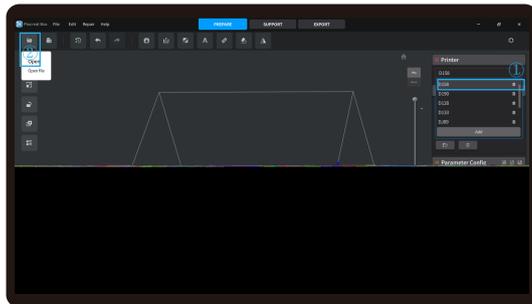
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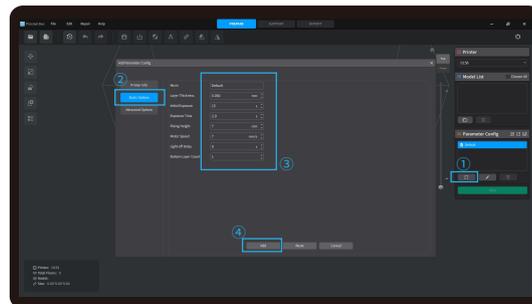
1. Slice



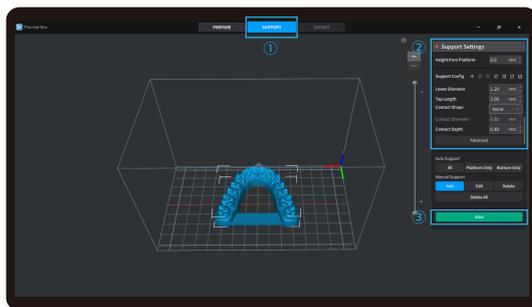
HUGE STUDIO



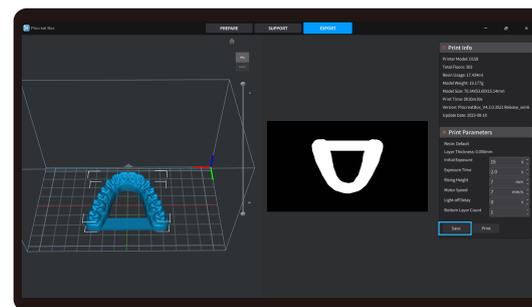
1. Open the HUGE STUDIO slicing software.
 → ①Click the right printer column to select the device model
 → ②And click "OPEN" on the top left of the interface to import the model file;



2. Setting Printing Parameters (If use Default-Parameters, skip this step)
 → ①Click the "Add" icon in the Parameter Configuration
 → ②Click the Basic Setting Option
 → ③Set the appropriate parameters → ④Click "Add"



3. Add bracket to the model (skip steps ① and ② if no bracket is added).
 → ①Click the icon above → ②Set the corresponding parameters
 → ③Click the slice;



4. Waiting for the auto slicing to complete (you can adjust the print parameters as required).
 → Click "Save" icon to save the sliced file.
 (*slicing tutorial see the official website slicing video www.hugedental.com)

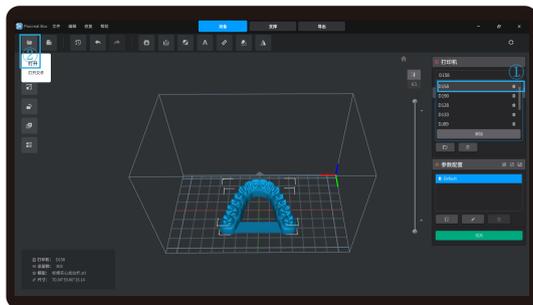


Note: The published UI of slicing software shall prevail for the interfaces of HUGE STUDIO.

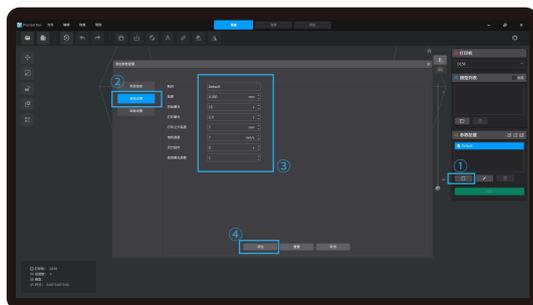
1. 切片



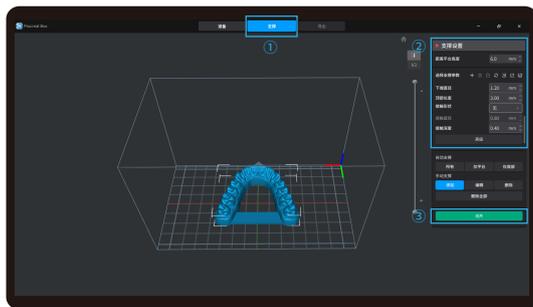
HUGE STUDIO



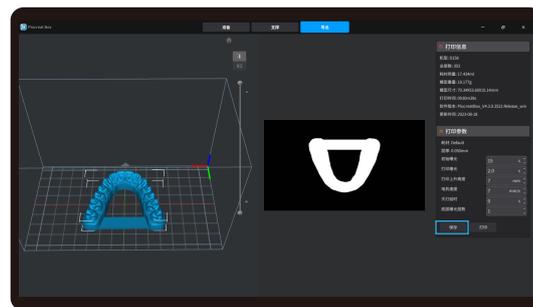
1. 打开HUGE STUDIO切片软件
→ ①点击右侧打印机栏选择设备型号
→ ②然后在界面的左上方点击“打开”导入模型文件；



2. 设置打印参数 (选择默认参数可跳过该步骤)
→ ①点击参数配置中的添加图标
→ ②点击基础设置选项
→ ③设置相应参数
→ ④点击添加；



3. 模型添加支撑 (无需添加支撑跳过①②步骤)
→ ①点击上方图标
→ ②设置相应参数
→ ③点击切片；

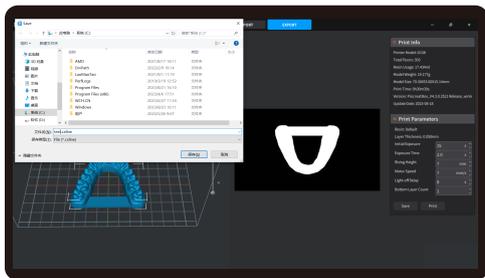


4. 等待切片完成 (可根据需求调整打印参数)
→ 选择“保存”另存切片完成的文件。
(*切片教程详见官网切片视频www.hugedental.com)

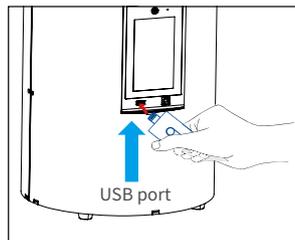


注意：HUGE STUDIO的界面均以发布的切片软件UI为准。

2. Print

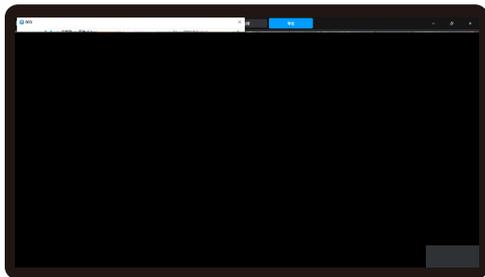


1. Generate .cxl file, and save the file to U disk.

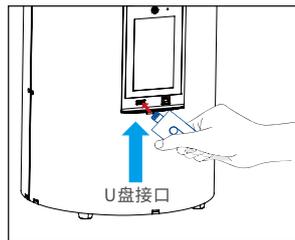


2. Insert the U disk → press the print button.

2. 打印



1. 生成 .cxl文件→保存文件到U盘



2. 插入U盘→按下打印按钮

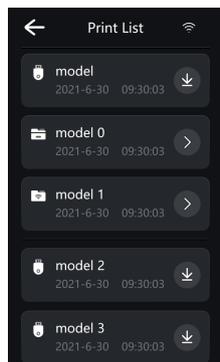
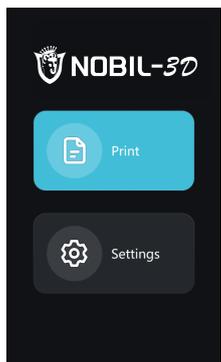


Note: The UI interface is for reference only, and shall be subject to the actual UI.
注意：界面仅供参考，实际以UI为准。

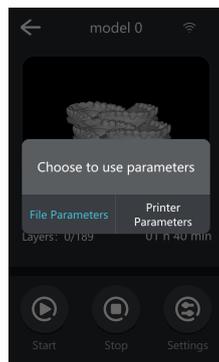


Warning: During the printing process the machine can't be shaken, so as not to avoid influencing affect the printing quality.
警告：在打印过程中，机器不能摇动，以免影响打印质量。

10. USB Disk Printing U盘打印



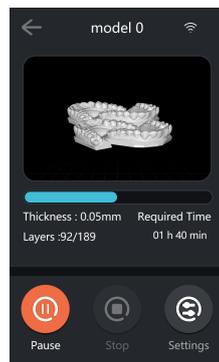
1. Select USB disk files;



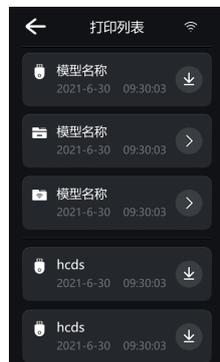
2. Choose to use parameters;



3. Press "Start" button



4. Printing...



1. 选择U盘文件;



2. 选择打印参数;



3. 按下开始键;



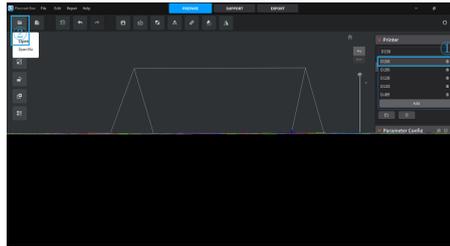
4. 正在打印中...

11. WIFI Print 无线打印

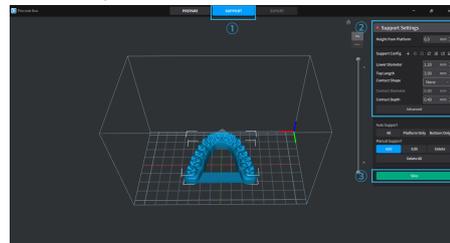
Slice



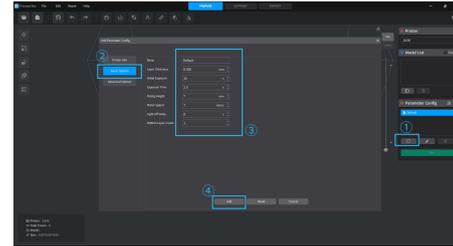
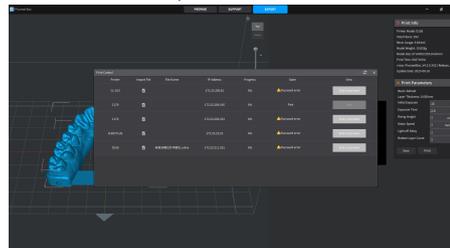
HUGE STUDIO



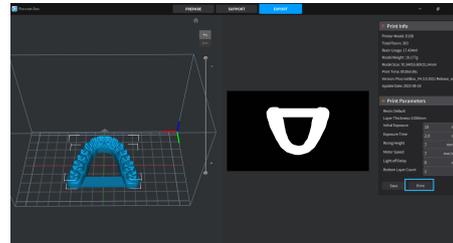
1. Open the HUGE STUDIO slicing software.
→ ①Click the right printer column to select the device model
→ ②And click "OPEN" on the top left of the interface to import the model file;



3. Add bracket to the model (skip steps ① and ② if no bracket is added).
→ ①Click the icon above → ②Set the corresponding parameters
→ ③Click the slice;



2. Setting Printing Parameters (If use Default-Parameters, skip this step)
→ ①Click the "Add" icon in the Parameter Configuration
→ ②Click the Basic Setting Option
→ ③Set the appropriate parameters → ④Click "Add"



4. Waiting for the auto slicing to complete (you can adjust the print parameters as required).
→ Click "Print" icon to use WIFI-printing (* slicing tutorial see the official website slicing video www.hugedental.com)

5. Select the file on the machine to initiate printing when the transfer is complete.

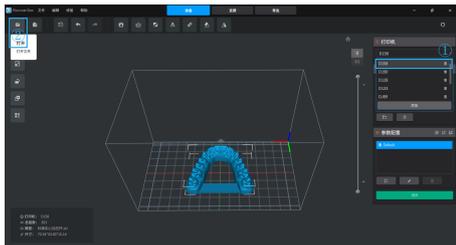


Note: Make sure the HUGE STUDIO and the printer are connected to the same WIFI.

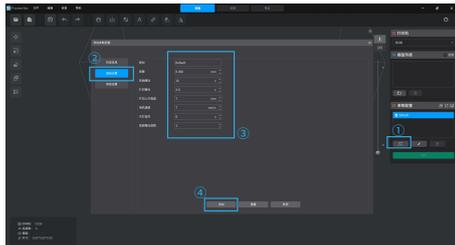
切片



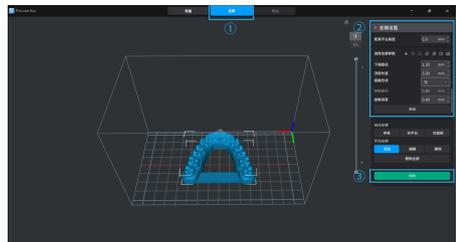
Piocreat BOX



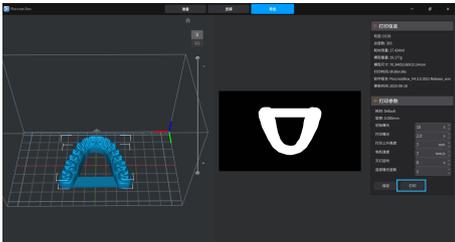
1. 打开HUGE STUDIO切片软件
→ ①点击右侧打印机栏选择设备型号
→ ②然后在界面的左上方点击“打开”导入模型文件；



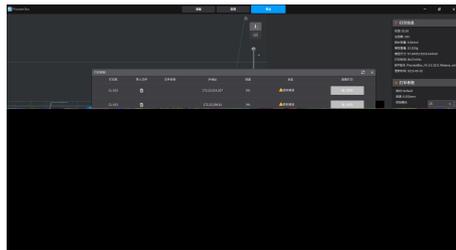
2. 设置打印参数（选择默认参数可跳过该步骤）
→ ①点击参数配置中的添加图标→②点击基础设置选项
→ ③设置相应参数→④点击添加；



3. 模型添加支撑（无需添加支撑跳过①②步骤）
→ ①点击上方图标 → ②设置相应参数 → ③点击切片；



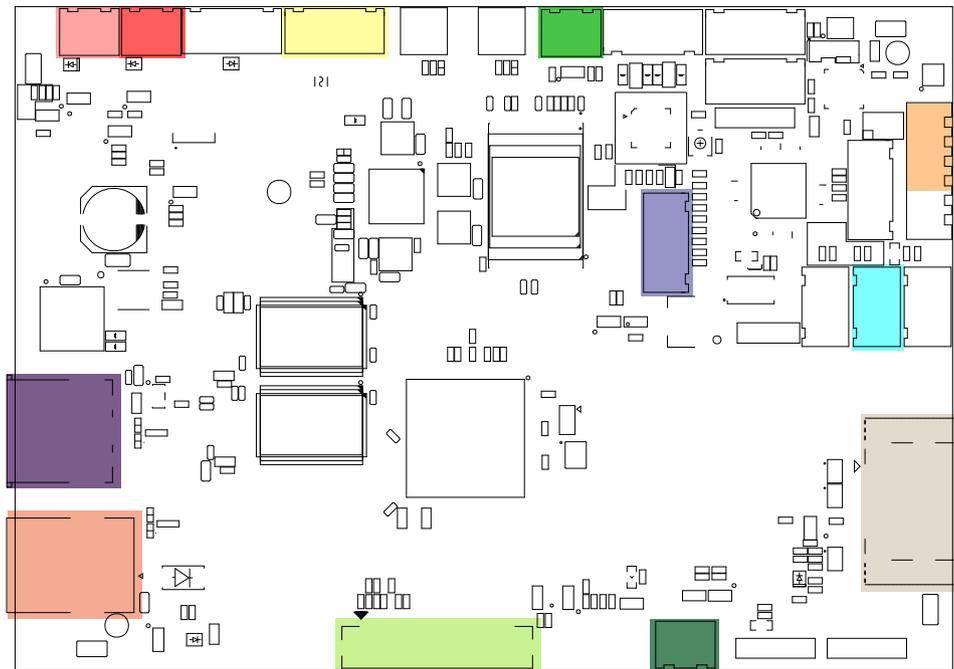
4. 等待切片完成（可根据需求调整打印参数）
→ 选择“打印”进入WIFI打印；
（*切片教程详见官网切片视频www.hugedental.com）

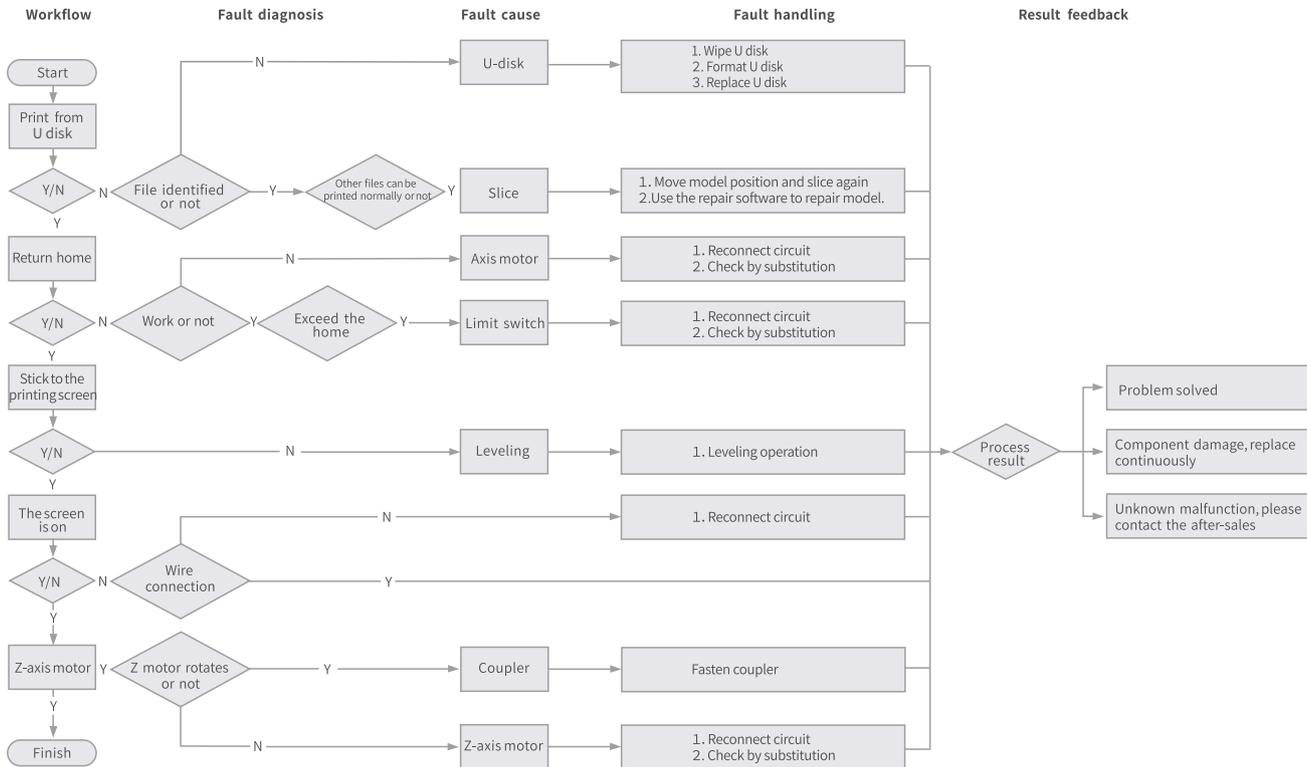


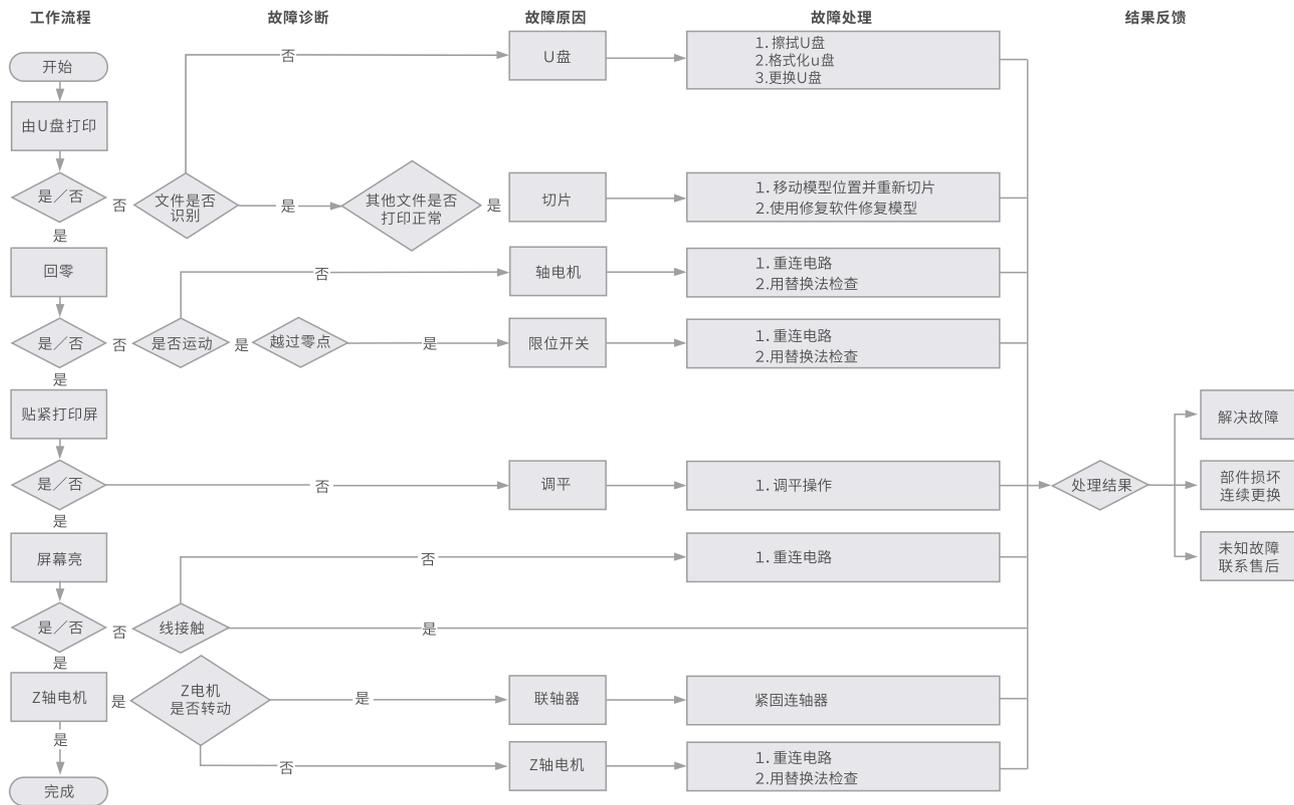
5. 传输完成后在机器上选择该文件启动打印。



注意：确保HUGE STUDIO与打印机连接同一-WIFI。







14. After-Sales Service Card



Scan the code to know more

Warranty Policy ←

- 1-year Limited Warranty since the date of product purchase.
- No Warranty for the Release Film and Product Gift (U disk, Gloves, Screwdriver, Paper funnel, Brush, etc.)

What Is Covered? ←

Any defects in material, workmanship of product will be covered until you provide any relating documents and information, including but not limited to:

- User of the product are in the country of purchase
- Defective product is a **HUGE** product
- Proof of Purchase

What Is Not Covered? ←

PIOCREAT does not guarantee the service as a result of:

1. The proof of purchase being altered or made illegible.
2. The product label or serial number on the product being altered or made illegible.
3. Normal wear of accessories or consumables for use as release film.
4. Malfunction or damage caused by personal retrofitting, or improper installation and usage.
5. Malfunction or damage caused by use in non-recommended working environments.
6. Malfunction or damage caused by overuse (overload) or wrong maintenance (damp, mildew, etc.)
7. Malfunction or damage caused by Force Majeure (fire hazard, earthquake, lightning and floods, etc.)
8. Malfunction or damage caused by the use of other brand parts or consumable.

Technical Support ←

Please enjoy our technical support of the whole lifetime (Except technical problem beyond product itself) after purchase the product while product documents as user manual attached in U disk for instruction.

Please provide product Serial Number when apply for technical support.

Kindly Notification ←

Please read the user manual and warranty card carefully before the use. For any service, Please priorly contact local seller or contact us via Email: marketing@hugedental.com for support.

See www.hugedental.com for specific warranty information about your product and procedures to act on a warranty claim.

退/换货政策 ←

一、满足退/换货时间

- ① 电商平台购买支持7天无理由退货，即产品签收时间起算，满168小时为7天。
- ② 因机器品质问题，非人为损坏的情况，签收后15天内可申请退换货。
- ③ 如另通过合同购买且有签订退换货时间的以合同为准，运费标准以售后服务卡为准。

二、产品外观要求无损伤、划痕、污迹、裂纹、变形等；随机配件、工具、赠品、包装等要求齐全完好。经我司售后检测判定，如退/换货收到的产品外观损坏，配件不全或未按原包装打包邮寄导致的问题，客户需承担相应的费用，具体损耗及费用需寄回后经专业售后人员进行检测核算。

三、非质量问题退/换货，如使用了耗材，客户需承担耗材的费用；由于包装纸盒或打包木架返厂后是无法二次使用的，因此客户需承担包装费；具体损耗及费用需寄回后经专业售后人员进行检测核算。

四、因不喜欢、不想要、拍错、使用不当、不满意产品等原因造成的退换货，退回运费需客户自行承担。

五、换货时，客户需先将机器寄回，公司收到机器后会及时安排发货。

退/换货运费标准 ←

类型	分类	寄回运费	出库运费
换货	非品质问题	客户承担	公司承担
	品质问题	公司承担	公司承担
退货	非品质问题	客户承担	/
	品质问题	公司承担	/

保修政策 ←

一、质保期

- ① 整机保修一年。
- ② 离型膜、赠品（U盘、螺丝刀、手套、油漆刷、纸漏斗、铲刀等）无保质期。收到产品后，请核对说明书部件清单，如赠品有缺少或品质问题，7天内可联系售后申请补发或更换。

二、质保期内保修：经我司售后检测判定为品质问题，公司提供免费维修服务；如果是人为导致的非品质问题，客户需承担相应更换的配件费用，无需承担维修费。

三、质保期外维修：由客户承担维修过程中产生的人工费、配件费、包装费、来回运费等所有费用。



扫码了解更多

返厂维修运费标准 ←

类型	返厂时间	返厂运费	出库运费
非品质问题	三个月以内	客户承担	公司承担
	三个月以上	客户承担	客户承担
品质问题	一个月以内	公司承担	公司承担
	一至三个月	客户承担	公司承担
	三个月以上	客户承担	客户承担

14. 售后服务卡

下列情况不列入质保范围 <

- ① 无法提供有效的机器制造编码、购买凭证和保修卡，或信息被涂改、字迹模糊、无法辨认等。
- ② 正常的使用磨损而造成的部件损坏。
- ③ 未按说明书指导，不正确安装、使用及操作，或私自对机器进行改装而造成机器故障或损坏。
- ④ 在非机器规定的工作环境下使用而造成机器故障或损坏。
- ⑤ 由于滥用（超出工作负荷等）或维护不当（受潮、进液、浸泡、发霉等）造成机器故障或损坏。
- ⑥ 由于不可抗因素（如：火灾、地震、雷击、水灾等）造成机器故障或损坏。
- ⑦ 由于使用其他品牌部件或低质量耗材造成的设备故障或损坏。
- ⑧ 未经官方授权的服务点维修过的机器。

技术支持 <

凡购买山东沪鸽 3D 打印机，均可享受（除产品本身之外）终生技术支持，如超越产品本身的技术问题恕不提供。本产品在 U 盘中有相关使用资料，如在使用过程中遇到技术问题，请联系售后客服帮您解决。

温馨提示 <

- ① 使用机器前请仔细阅读说明书和售后服务卡。
- ② 质保期内维修过的机器后仍享有剩余质保服务。
- ③ 退/换货及返厂维修需按原包装寄回机器，以免快递过程中产生其他问题，建议妥善保存好产品原包装。
- ④ 申请质保服务时，需提供产品制造编码、购买凭证、订单号、保修卡、发票等信息。如未提供，公司有权拒绝提供质保服务。
- ⑤ 服务时间：周一至周五，9:00-20:30；周六至周日，9:00-18:30（法定节假日除外）。热线：86-633-2277268，邮箱：marketing@hugedental.com

WARRANTY

Before returning the product and filling in a warranty, please contact after-sale person for going through after-sale formality. And attach this warranty card along with the returned machine.

Repair

Change

Return

Name: _____ Telephone: _____

Address: _____

Serial Number: _____ Order Number: _____

Channel: Platform Offline

Date of purchase Day _____ Mon. _____ Year _____



Note: Client need filling in basic infor. and return reasons. Repair records shall retain for technicians.

Malfunction And Damage Depiction Or Return And Change Reasons\ Suggestions:

Repair Records:



产品保修卡

产品寄回前请先联系售后专员，为正常进行售后处理，请务必填写此卡，并随机器寄回。

返修

换货

退货

客户名称：_____联系电话：_____

收件地址：_____

机器制造编码：_____订单编号：_____

购买渠道：电商平台 线下

购买日期：_____年_____月_____日



温馨提示：基本信息及返厂原因为客户必填项，维修情况记录部分为维修人员填写项。

故障描述或退、换货原因和建议：

维修情况记录：



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