🖈 Voxelab

v2.0 20210205 Proxima 6.0 / 比邻星 6.0 Quick Start Guide ⇒ 快速启动指南 ==

中文P17

- 1. Please put on gloves while using photopolymer resin to avoid direct contact with the skin.
- 2. To ensure the printing quality, please don't open the light shield unless it's necessary.
- Unused photopolymer resin needs to be stored in a dark, dry, and cool place.
- 4. Please clean the finished model with anhydrous alcohol.
- 5. Please install the build plate correctly, without dust and items, to avoid damage to the LCD screen.

🚹 注意事项

- 1. 当使用光敏树脂溶液时,请戴上手套,避免与皮肤直接接触.
 - 2. 除必要情况下,打印时请勿打开遮光罩,以免外界光照影响打印效果。
 - 3. 未用完的光敏树脂溶液需放置在避光环境,保持环境阴凉通风。
 - 4. 模型在打印完成后可用无水酒精进行清理。
 - 5. 操作时请确保平台安装正确,无异物,以避免损伤LCD屏幕。

This guide is only applicable to Voxelab Proxima 6.0 3D printer 本手册仅适用于Voxelab比邻星 6.0 3D打印机

Foreword

Note: Every 3D printer has passed the printing test before leaving the factory. It is normal if there is residual material in the resin box or a slight scratch on the build plate and does not affect the use.

Dear User:

Thank you for choosing and using the Voxelab products. Thank you for your support and help to Voxelab Technology. The Voxelab products have excellent quality and performance. For your convenience, please read this guide carefully before use and follow the guide strictly. The Voxelab team is always ready to provide you with the perfect service. Please contact us with phone or email listed in the guide, if you have any problems.

In order to better experience our products, you can also get operational knowledge of the equipment from the following ways:

Quick Start Guide

Users will find the Quick Start Guide together with the printer accessories. The Quick Start Guide will help you start your print journey as soon as possible.

Notice

PLEASE STRICTLY FOLLOW ALL THE SAFETY WARNINGS AND NOTICE BELOW ALL THE TIME.

Work Environment Safety

- Keep your work place tidy.
- Do not operate the Proxima 6.0 in flammable liquid, gas or dust environment (The high temperature generated by Proxima 6.0 operation may react with dust, liquid, and flammable gas in the air to cause a fire.)
- Children and untrained people are not allowed to operate alone.

Place Requirements

The device must be placed in a dry and ventilated environment. The distances of the left, right and back side space should be at least 20cm, and the distance of the front side space should be at least 35cm.

Electricity Safety

- Always use the directly with a properly grounded outlet. Do not refit device plug.
- Do not use Proxima 6.0 in damp or wet environment. Do not expose Proxima 6.0 under sunshine.
- Do not abuse the cable.
- Avoid using the device during an thunderstorm.
- In case of uncertain accident, please unplug the device if you do not use it for a long period.

Personal Safety

- please don't direct touch the photopolymer resin with hands.
- Please put on gloves and masks during operation.
- Please don't look at the light source directly without protective device.
- ◆ Do not operate the device while you are tired or under the influence of drugs, alcohol or medication.

Cautions

- Do not leave the device unattended for long.
- Do not make any modifications to the device.
- Do not operate the device in bright light.
- Operate the device in a well-ventilated environment.
- Never use the device for illegal activities.
- Never use the device to make any food storage vessels.
- Never use the device to make any electrical appliance.
- Never put the model into your mouth.
- Do not remove the models with force.

Environment Requirements

- ◆ Temperature: RT 15-30℃
- Moisture: 20%-70%

Photopolymer Resin Storage

◆ Unused photopolymer resin needs to be stored in a dark, dry, cool place, and out of the reach of children. The resin stored at low temperature should be shaken well and used at room temperature (above 20°C).

Photopolymer Resin Requirements

 Do not abuse the photopolymer resin. Please make sure you use the Voxelab photopolymer resin or the photopolymer resin from the brands accepted by Voxelab.

Notes on model layout

 Try to avoid inverted loopholes of model layout. Reduce exposure time when printing models with dense layout.

Legal Notice

- Flashforge shall not be responsible for any safety incident caused by the customers's own modification or disassembly of the equipment.
- All the information in this document is subject to any amendment or change without the official authorization from Voxelab.

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Getting to Know Your Proxima 6.0



- 1. Platform Tighten Knob
- 3. Build Plate
- 5. Box Tighten Knob
- 7. USB Stick Port
- 9. Power Switch

- 2. Z-axis
- 4. Resin Box
- 6. Touched Screen
- 8. Light Shield
- 10. Power Slot

Parameter

Technology	Liquid Crystal Display		
Light Resource	405nm UV integrated light array		
XY Resolution	0.050mm(2560*1620)		
Suggested Layer Thickness	0.025-0.1mm		
Net Weight	7KG		
AC Input	110-220V, 50-60Hz 12V, 5A, 60W		
Software	CHITUBOX/VoxelPrint		
Screen	3.5" color IPS Touch Screen		
Connectivity	USB Stick		
Production Dimensions	230*200*410mm		
Build Volume	130*82*155mm		

Accessory Box





Leveling

Open the paper box and take out the Proxima 6.0 on the desk. Remove all protective foam.





1. Connect the power adapter and power cable. Plug the output end of the power adapter into the power input port on the back of the printer and turn on the switch.







 Tap [Tools] - [Manual] - [↑], lift the plateform up at least 10cm.



3. Install the build plate on the plate holder.



4. Tighten the platform tighten knob. If the build plate cannot fix well, please to do step 5 first, then do the step 4.



5. Just loose two screws in the front and right side of cradle head on the build plate.



6. Make sure it can move free but not to fall.



7. Remove resin box.Put a piece of A4 paper on the 6' LCD screen.





8. Tap [Tool] - [Manual] and open a new window. Tap [Home] and wait for stop movement of Z-axis.



9. If twitch a piece of A4 paper and feel the large resistance, press (not heavy) the tap of the build plate with one hand to let four corners of build plate to touch the LCD screen evenly. And just tighten lightly the screws in the front and right side of cradle head first. Then tighten again. If twitch a piece of A4 paper and don't feel the large resistance, tap [0.1mm] in the touched screen and twitch paper and feel the resistance again. Repeat it, until feel the large resistance from paper. Then tighten all screws.

Note: Because of change in tightness by tighten screws on the build plate, it have to adjust the height of Z-axis. If twitch a piece of A4 paper and feel little resistance or no resistance, tap [0.1mm] and the height of Z-axis decline 0.1mm.

If twitch a piece of A4 paper and feel large resistance, tap [0.1mm] and height of Z-axis rise 0.1mm. Over and over. The perfect state is pulling out the paper and you still feel some resistance.



10. Tap [Back] to come back and tap [Set Z=0] to set the height of the current build plate to zero. Then tap [Manual] to lift the build plate upper.

Expect for the first time print, it also need leveling after replacement of build plate and new screen; if there are some printing issues, like printed model can not stick build plate, leveling operation may required to slove it.

First Print



1. Make sure LCD screen, build plate and resin box is clear. Install the resin box on the LCD screen.



2. Tighten the two box tighten knobs.



3. Verify the installation of resin box and build plate first. Then pour the resin into the resin box.

Note: Do not exceed the mark line in the resin box.



4. Close the light shield after all above preparatory work.



5. Tap [Print] and choose the printed file in the list. Tap the printed file and star to print.

Note: Do not open the light shield in the process of printing to avoid eyes hurt.



1.Touched screen will show the tips when the printing is finished. Tap [OK] and then open the light shield.

Postprocessing



2. Just loose the platform tighten knob to remove the build plate easily.





3. Remove the printed model carefully by metal scraper and put the model into the cleaning box with anhydrous alcohol to clean excess resin.

Note: Do not damage the FEP film in the resin box or the LCD screen in the process of removing model.



4. After cleaning finished, remove the alcohol in the model by non-dust cloth or air gun. It is better to solidify the model again by using curing box.



 If you do not print within a period of time, it suggest that pour the residual resin into the resin bottle. The residual resin must be filtered by using filter paper first. At last, close the power and clean the printer, especially build plate and resin box, by using non-dust cloth and anhydrous alcohol.

Note

- During installation and removal of the build plate, please be extra careful to prevent the LCD screen from damage by build plate falling down.
- Please observe the priting process regularly to avoid printing failure, especailly for long printing time.
- ◆ Please make sure the printing environment to keep clean with less dust.
- Please confirm the installation and leveling gaps for several times when do the leveling if you are new to 3D printing.

Replace the FEP film in the resin box

Please refer to the following steps when install or replace the FEP film.



 Loose the screws at the bottom of the resin box to remove the FEP film fixing frame and remove the overused FEP film.





- Align the FEP film with the screw holes and clamp it between the two fixing frames; then tighten the screws.
- Note: There are upper and lower sides of the frame; please verify the correct side through the screw holes.

- 3. Re-install the film fixing frame to the bottom of the resin box and tighten the screws to make the FEP film tense. Then pour the water or resin into the resin box to check if there is leakage. Replace the FEP film and re-install it if there is.
- Note: please take care of the FEP film in the above steps to avoid damage and dirt.

Software Operation

CHITUBOX



1. Install and open the ChiTuBox 64.exe program.

CHITUBOX V1.0			
Open Project			
Save ProJect			
Open			
Save As.			

 Click the upper left menu button, and [Open...] to choose the printed files.



3. Using movement and rotation to move the model to the right postion, where can not lower the build plate.

Settings					X
	Proxima 6.0		• 🗄 🔊		900
Default	Machine Resin	Print	Infill	Gcode	Advanced
	Layer Height :	0.05 mm 6	Bottom Lift D Lifting Distan	istance : 5	5 mm 5 mm
	Exposure time .	2.5 S	BOLLOIN LITE S	beed . 6	0 mm/min
	Bottom Exposure Time :	20 s	Lifting Speed	: 6	0 mm/min
	Light-off Delay :	0 s	Retract Speed	l: <u>18</u>	30 mm/min
	Bottom Light-off Delay :	0 s			

4. Click [Settings] and open the pop-up window. Generally, adjust 'Layer Height,Bottom Layer Count, Exposure Time, Bottom Exposure Time. Default settings are adviced.



5.Finish all parameter settings, click [Slice] and there is a tip in the down right of the window shows "Slicing...". After slicing, there is a pre-review window.

6.Click [Save], choose the file type as".fdg" and stored place and top [Save].

Load printed files

1.Copy the ".fdg" file to the USB stick from the computer. It is better to remove USB stick to avoid file damage after exiting the computer safely.



2. Pull USB stick into the USB stick port in the Proxima 6.0. Tap [Print] in the touched screen and open files list. Only showed in the list, the files are recognized successfully.

Note: USB stick permit to remove in the process of printing.

Mainteness

- Do not pour the residual resin back into the resin bottle with unused resin.
- The waste resin can be poured into the hermetic bag to encapsulate and exposure to the sun until solidify all resin.
- If stop print within a period of time, pour the residual resin back into the resin bottle and save it to avoid light. If there are some thin solidified pieces in the resin, it must to be filtered before storage.
- Do not clear the solidified pieces in the resin box by using sharp mental scraper or other sharp tools to avoid the damage of FEP film.
- If there is some resin dropped in the touched screen, it must to clear by non-woven fabrics; or the resin have been solidified, please clear it by non-woven fabrics and anhydrous alcohol.
- Please keep two places showed in the picture clear. No dust and fingerprint.



前言

注 意 每台3D打印机在出厂前都经过打印测试,若料槽内存在耗材残留或打印平台有 轻微划痕,都属正常现象,不影响使用。

尊敬的用户:

感谢您选择、使用闪铸科技的产品。感谢您的大力支持和帮助。闪铸科技的产品质量 优、性能上佳。为了您使用方便,请您在使用之前仔细阅读该说明书,并严格按照说明书 的指示进行操作。整个闪铸科技团队时刻准备为您提供最优质的服务。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,您还可以从以下途径获取设备的操作知识:

快速启动指南

请您小心拆箱,您可以从最上层的泡沫中取出附带的快速启动指南。快速启动指南将帮助您以最快的速度熟悉设备并成功完成初次打印体验。

注意事项

安全提示: 请确保认真阅读以下安全提示

工作环境安全

- ◆ 请保证打印机的工作台面干净整洁。
- ◆请保证打印机工作时远离可燃性气体、液体及灰尘。设备运行产生的高温有可能会与空气中的粉尘、液体、可燃性气体反应引发火灾。
- ◆ 儿童及未经培训的人员请勿单独操作设备。

设备运行环境要求

- ◆室内温度在15-30度为宜。
- ◆湿度在20%-70%为宜。

设备放置要求

◆设备需要放置于干燥通风的环境中。设备 左侧、右侧以及后侧必须要留至少20cm 的空余距离,前侧必须要留至少35cm的 空间距离。

用电操作安全

- ◆请务必将设备接地。切勿改装设备的插头。未接地 / 未正确接地 / 改装插头必然会增加漏 电风险。
- ◆请勿将设备暴露在潮湿或烈日环境中。潮湿环境会增加漏电的风险/暴晒会加速塑件老化。
- ◆请勿滥用电源线,务必使用闪铸科技提供的电源线。
- ◆ 切勿在雷雨天气使用设备。
- ◆如长时间不使用设备,请关闭设备并拔下电源线插头。

个人操作安全

- ◆ 请勿用手直接触碰光敏树脂溶液。
- ◆ 在操作设备时,请带上橡胶手套和口罩。
- ◆ 请勿直视光机光源。
- ◆ 请勿在饮酒、服药之后操作设备。

设备使用提示

- ◆ 切勿长时间离开正在运行的设备。
- ◆ 请勿自行对该设备进行任何改装。
- ◆ 请勿在强光环境下进行打印作业。
- ◆ 请在通风的环境下操作设备。
- ◆ 请勿利用该设备进行违法犯罪的活动。
- ◆ 请勿利用该设备制作食物储存类产品。
- ◆ 请勿利用该设备制作电器类产品。
- ◆ 请勿将打印模型放入口腔。
- ◆ 请勿用蛮力卸下打印模型。

模型排布注意事项

设备兼容耗材要求

◆在使用该设备时,请使用闪铸提供或指定的耗材。市场上耗材鱼龙混杂,质量良莠不齐。质量低劣或不兼容的耗材可能容易影响打印成功率,影响使用体验。

耗材储存要求

◆请将光敏树脂溶液存储在阴暗干燥的环境下,请放置在儿童不可触及的位置,请保证瓶身标识面朝向醒目可视方向。低温存储的溶液需要摇匀,且恢复到室温(20℃以上)后使用。

◆模型排布尽量避免形成倒扣漏洞状;打印密集排布的模型可以适当降低曝光时间。

法律申明

◆客户若自行拆装或改造设备造成任何安全事故,闪铸科技概不负责。未经闪铸科技允许, 任何人不得对该手册进行修改或翻译。本手册受版权保护,闪铸科技对本手册保留最终解 释权。

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设备介绍



 1.平台紧固旋钮
 2. Z轴
 3. 成型平台
 4. 溶液盒
 5. 溶液盒紧固旋钮

 6.触摸屏
 7. U盘端口
 8. 遮光罩
 9. 电源开关
 10. 电源线插槽

机器参数

成型技术	LCD光固化		
光源	紫外集成光源(波长405nm)		
XY轴精度	0.050mm(2560*1620)		
推荐厚度设置	0.025-0.1mm		
净 重	7KG		
切片软件	CHITUBOX/VoxelPrint		

电源要求	110-220V, 50-60Hz 12V, 5A, 60W		
操作屏幕	3.5英寸触摸屏		
连 接	U盘		
设备尺寸	230*200*410mm		
成型尺寸	130*82*155mm		

配件清单





机器调平

打开纸箱,小心地取出打印机,拆除打印机上所有的保护包装。



1. 连接电源适配器和电源线,将电源适配器输出端插入打印机背部的电源输入端口,打开开关。









 2. 点击屏幕[工具]--[Z轴移动],进入Z轴 移动界面,点击[↑]图标,使平台上移 不少于10cm。



3. 将平台安装到平台支架上。



4. 拧紧平台固定旋钮。如果平台拧不紧, 请先做步骤5再做步骤4。



 5.使用内六角扳手将打印平台上云台前方 和右侧的螺丝拧松。



 6.用手摇动打印平台,确认打印平台能够 前后左右自由晃动。



7. 取下溶液盒。放一张A4纸在6寸LCD屏上。





8. 点击[工具]--[Z轴移动],进入Z轴移动 界面,点击[home]图标,然后等待Z轴 移动停止。



9.当抽动A4纸有明显阻力时,用手按压平台上方,使平台四个角受力均匀的贴合在屏幕上(避免重力损伤屏幕)。在按压的同时,先将平台前方和右侧的螺丝都预拧紧,然后再分别锁紧。如果抽动A4纸没有明显阻力时,可点击"0.1mm",以0.1mm的距离下降Z轴,直到 抽动A4纸有明显阻力为止,再锁紧螺丝。

注意:因拧紧平台螺丝后可能会改变A4纸抽动时的松紧度,所以需再次微调Z轴高度。 若抽动A4纸无阻力或阻力较小时,点击"0.1mm",以0.1mm的距离下降Z轴;若无法 抽动A4纸,以0.1mm的距离上升Z轴;抽动A4纸时,以阻力较大,但还是能将A4纸抽出 为准。



10. 点击[返回],点击[设Z为零],设置当前位置为零位。然后可以通过[Z轴移动]功能将平台上 升到适当位置,完成调平。

注意:除了首次使用需要调平之外,更换新打印平台、屏幕更换等情况也需要进行打印平台 调平操作。若出现打印异常,如打印模型一侧掉板,也需要进行调平操作。

首次打印



1. 确认LCD屏、打印平台和树脂槽清洁无异物。 2. 紧固旋钮固定锁紧。 将溶液盒安装在LCD屏上。





3. 确认溶液盒和打印平台安装无错位。将光敏树脂倒入溶液盒中, 溶液盒中的光敏树脂液位 必须在上限标记线之下。





- 4. 完成上述准备后,盖上遮光罩。
- 5. 点击打印,进入模型列表。找到要打印的模 型文件,点击模型文件,点击开始打印。

注意:打印过程中不要打开遮光罩,避免眼睛损伤。

打印后处理

打印完成,用时02h57m	
· · · · · · · · · · · · · · · · · · ·	<u></u>
🝸 00h01m 🔟 02h57m 🔶 899/899	¥

1. 待打印完成后,显示屏会显示打印完成 2. 旋松平台紧固螺母,取下打印平台。 提示,点击[确定],打开遮光罩。







3.用铲刀将模型铲下,放入装有无水酒精的容器中进行清洗。

注意:取下模型时,要小心不要戳伤溶液盒底部的FEP膜或者LCD屏幕。



4. 完成清洗后,将模型上的酒精用无尘布擦干或用气枪吹干。可使用光固化箱进行二次固化。



 5. 将溶液盒中的溶液进行过滤后,倒回树脂瓶中(建议和新树脂分开装)。最后用无尘布 和酒精清洁设备,关闭机器的开关。

注 意

- ◆安装平台和取下平台时,需要格外小心,防止平台掉落砸坏LCD投影屏。
- ◆在打印过程中不时查看打印进程,避免打印失败。
- ◆注意使用环境卫生,保持清洁,避免灰尘较多。
- ◆新手进行平台调平时,请多次确认安装、调平间隙情况。

更新溶液盒FEP膜

FEP膜需要安装或者更换时进行



1. 拆卸溶液槽底部螺钉, 将薄膜固定框从 溶液盒中拆下, 取掉旧的FEP膜。



- 2. 将FEP膜对准螺钉孔位,夹装在两个固定 框中间,拧紧螺钉。
- ◆ 注意:安装固定框有正反面,通过螺钉孔 槽可确定正确安装面。



- 3. 将薄膜固定框装回溶液盒底部,拧紧螺钉使FEP膜拉紧。然后在溶液槽中导入水或者溶液, 检查是否发生漏液,如有漏液更换FEP膜重新安装;
- ◆注意:以上过程注意保护FEP膜,防止破损、脏污。

软件操作

CHITUBOX



1. 安装并运行ChiTuBox 64.exe程序。

CHITUBOX V1.0			
打开项目			
保存项目			
打开			
月存为…			

 打开左上角菜单按钮,点击[打开…], 选择模型文件。



3.使用平移、旋转将模型摆放到合适的位置,模型不能低于底板网格面。

切片设置					×
Default	Proxima 6.0 机器	树脂	打印	 ▼ ↓ ↓	団 Ccode 高級
	层数: 底层数: 曝光时间: 底层曝光时间:		0.05 mm 6 2.5 s 20 s	底层抬升距离: 抬升距离: 底层抬升速度: 抬升速度:	5 mm 5 mm 60 mm/min 60 mm/min
	灯灭延迟:		0 s 0 s	回程速度:	180 mm/min

4.点击[打印设置],弹出打印设置窗口。建议采用默认参数。(一般只需调"层厚"、"底层数"、"曝光时间"、"底层曝光时间"等)



5.打印设置参数调好后,点击[切片],此时界面右下方会显示"正在切片…",等待切片完成 后,界面变为切片预览界面。

6.点击[保存],文件类型选择".fdg"文件,选择保存位置,点击[保存]。

模型导入

1.将模型的".fdg"文件在电脑端复制到U盘里。拔出U盘时先在电脑安全弹出U盘,再拔U盘, 避免模型数据遗失或损坏。



2.将U盘插在设备USB接口,在主界面点击打印进入文件列表,点击上下翻页按钮,找到需要 打印的模型文件,则表示模型文件被成功识别。打印过程中,U盘不能移除。

设备维护

- ◆ 切勿将使用过的光敏树脂溶液倒回原溶液瓶。
- ◆ 废弃的光敏树脂溶液倒入密封袋密封,随后放在阳光下曝晒直至树脂固化。
- ◆ 若长时间不打印,请将溶液盒中剩余光敏树脂过滤后倒入密闭的容器中,并做避光保存。 若剩余溶液有固化的模型掉入,需尽快取出。
- ◆ 操作平台时,要注意避免损伤LCD屏幕。
- ◆ 请勿用锋利的金属铲子或者锐器处理溶液盒内的残留物,以免对FEP膜造成伤害。
- ◆ 如不慎有溶液滴落在LCD屏幕上,请及时用无纺布擦拭干净;如溶液已固化,请将无纺布 浸润酒精后擦拭干净。
- ◆ 请保持下图所示两处透光部位洁净。保证无尘无指纹。







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