Mega Pro激光安装说明书

关于激光的使用说明，请参阅机器附带的SD卡内电子版说明书，也可到ANYCUBIC官网（http://www.anycubic.cn/）下载电子版说明书。如遇任何问题，请登录 support.anycubic.com/cn 提交售后申请，将有专业售后技术团队为您服务。

1. 安全说明

使用本设备时，必须阅读以下的安全说明，如未按照规范使用造成人身意外伤害，本公司概不负责。

❶ 在开始之前

1.在整个激光雕刻过程中，请佩戴激光安全眼镜。请使用可防护四级激光的安全眼镜。（**注意：**安全眼镜仅用于防护意外辐射伤害，不可用于长时间直视激光。）
2.儿童需在成年人的监督和帮助下使用本设备。
3.不能在酒精或药物影响下使用本设备。
4.使用激光雕刻必须遵守法规和标准，特别是安装在教育机构或工作场所时。确保您遵守所有适用的规则。
5.开始激光雕刻时，请勿将手或其他部位伸进激光雕刻路径中，以免造成激光灼伤。若意外受伤请立即关闭设备，寻求医生帮助。

❷ 电气安全

为减少触电或失火的危险:

1.不要试图修理或修改本设备。
2.不要试图修改本设备的任何接线。
3.不要打开电源或本设备的任何其他密封部分。
4.如果本设备损坏，请关闭机器，拔下插头，登录support.anycubic.com/cn 提交售后申请。
5.如果出现紧急情况或故障，请关闭机器并拔掉插头。
6.只使用接地良好的插座。

❸ 消防安全

本设备的激光雕刻有高强度蓝光。激光可以在被雕刻的材料表面产生极高的温度。在某些情况下，材料可能会点燃，火焰可能会蔓延到雕刻的区域之外。如果被点燃，火焰可能会摧毁你的设备，并蔓延，有可能导致建筑物起火。

❹ 火灾风险

1.不要使用本设备激光雕刻任何本设备不支持的材料。
2.请勿堆放物料。例如，试图一次烧灼两张或两张以上的纸。多个碎片更容易燃烧。
3.不要把不相关的物品放在本设备上面。
4.不要将油漆、丙酮、汽油或酒精等易燃蒸汽源与本设备存放在同一房间。

❺ 安全设备

1.在靠近机器的地方放置可用于扑灭电器火灾的灭火器，适当维护和检查，并了解使用方法。（**温馨提示：**部分灭火器不适用于扑灭电器火灾，请使用干粉灭火器或二氧化碳灭火器扑灭电器火灾。）
2.确保按照当地法规和制造商建议在大楼内安装和测试烟雾报警器。
3.操作时，不要让本设备处于无人看管的状态——始终保持在视线之内，并保持观察。
4.激光束击中材料产生小火焰是正常现象。火焰应该随着激光移动，当激光移动过去时，火焰不应该一直亮着。

如果材料上有持久的火焰:
①关掉机器电源，拔下插头。
②如果安全的话，用湿毛巾或灭火器灭火。
③如果火势无法扑灭或蔓延到机外，请拨打当地的紧急电话（例如119），并撤离大楼。
④在您通过联系我们获取服务信息之前，不要进一步操作本设备。

❻ 烟雾安全

1.使用本设备时，激光会产生可见和不可见的气溶胶、气体、蒸汽和微粒（这里称为“烟雾”）。这些烟雾包括一氧化碳和其他化学物质，这取决于被激光照射的物质，并可能对健康造成危害。
2.不要忘记检查你当地的空气质量法规，并确保符合相关地方法规。

❼ 材料安全

1.建议只激光雕刻以下材料：木材，皮革，纸板。
2.不要用激光雕刻下列材料：金属、透明材料、反光材料等。
3.材料必须适合，不合适的材料可能会阻碍操作，导致损坏，增加火灾的风险。
4.材料尺寸必须小于220 x140 毫米。

❽ 激光安全

1.激光头发出的光束足以造成皮肤和眼睛的损伤，为此我们给您提供了一副安全眼镜来保护您的眼睛。在整个激光雕刻过程中，请佩戴安全眼镜。
2.激光雕刻时应与机器保持至少1米安全距离。

❾ 警告

1.请勿直接用肉眼直视激光光束。
2.试图修改或维修本设备可能会导致危险的激光照射。
3.请勿在无人看守的情况下运行。





2.激光雕刻参数

雕刻原理	激光雕刻
图片格式	bmp格式
雕刻面积	220×140 (mm^2)
雕刻模式	位图
像素尺寸	0.05-0.1 mm（建议0.1）
激光强度	1-100%
激光高度	1-100mm
图片镜像	建议保持默认值
额定功率	1500mW
支持材料	木质，皮革，牛皮纸

注意：

1.激光雕刻配件中的牛皮纸时，建议将激光强度设置为15%，激光高度设置为25mm；雕刻配件中的木板时，建议将激光强度设置为25%，激光高度设置为52mm。
2.激光雕刻环境温度为15°C-50°C，在此范围之外使用，可能带来不良的雕刻效果。
3.切换模式时（3D打印模式和激光雕刻模式）必须先关闭机器电源开关，然后在机器底座右后侧的绿色端子连接对应的接线后再开机。

3.配件清单



激光头 X 1
扎带 X 5



防护眼镜 X 1



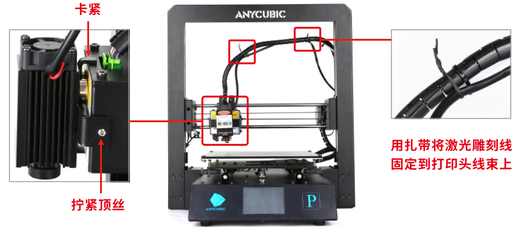
木板 X 3



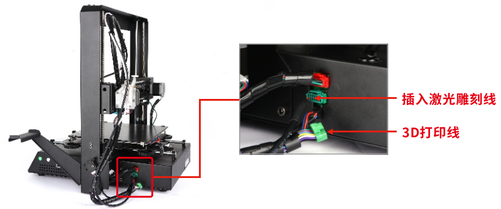
牛皮纸 X 5

4. 安装激光头

❶ **关闭机器电源开关（务必关闭）。将激光头吸附在3D打印头上，然后拧紧激光头一侧的顶丝。**



❷ **将机器底座右后侧的绿色端子的线拔出，然后插入激光雕刻线。**



注：激光使用的详细教程请参考机器附带的SD卡电子档。

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Assembly Instruction for Mega Pro Laser

For detailed instructions, please refer to the user manual from the SD card or visit www.anycubic.com to download the manual. If you need any help, please contact technical support at support.anycubic.com/en

1. Safety Instructions

The safety instructions as shown below must be read first before you use the machine. The company is not responsible for the individual injury caused by improper operations.

❶ Before Using

1. Please wear laser protection glasses when the machine is in the laser engraving mode. Make sure your protection glasses are certified for use with class 4 Lasers.
   ATTENTION: The glasses are not made to look into the laser for a long time, but just to protect you from an accidental radiation.
2. Keep children under the supervision of adults.
3. Do not use the machine under the influence of alcohol or drugs.
4. Laser engraving must comply with law and regulations, especially when the machine works at educational institution or workplace. Ensure you obey every applicable regulation.
5. Do not put your hands or other parts of body into the laser engraving route when the machine works. If you do it by accident, turn off the machine immediately and seek medical help.

❷ Electrical Safety

To avoid electric shock and fire:

1. Do not repair or modify the machine without professional assistance.
2. Do not modify the connection of the machine without professional assistance.
3. Do not open power supply or other sealing parts.
4. If the machine is damaged, please turn it off and pull the plug. Then visit support.anycubic.com/en and apply for after-sale service.
5. When it occurs an emergency or malfunction, please turn off the machine and pull the plug.
6. Make sure the wall power socket is well grounded.

❸ Fire Safety

The laser head which features high-intensity blue light can heat the surface of engraved material to an extremely high temperature. In some cases, the material may be ignited and the flame may spread beyond the engraving areas. The fire may destroy the machine or cause more damages.

❹ Fire Risk

1. Do not use the laser engraving with any material it doesn't allow.
2. Do not stack up material, such as engraving two or more pieces of paper at the same time. Multiple materials are easier to be burned.
3. Do not put irrelevant materials on the machine.
4. Do not place the machine with flammable sources together, such as paint, acetone, gasoline or alcohol.

❺ Safety Equipment

1. Place a properly maintained and inspected fire extinguisher, that is certified for the use on electrical devices, near the machine and know how to use it.
   INDICATION: Not all fire extinguishers can be used on electrical devices. Only use extinguishers with following infills: "Dry Powder" with a blue label, or "CO2 Carbon Dioxide" with a black label.
2. Ensure that smoke alarms are installed and tested in accordance with local regulations and manufacturer's recommendations.
3. Don't leave the machine unattended when it works - always keep it in sight and keep it under observation.
4. It is normal that a small flame appears when a laser beam irradiates the material. The flame should follow the laser and disappear while the laser travel forward.

If a flame keeps burning on material:
①Turn off the machine and pull the plug.
②Put out the fire with a wet towel or a fire extinguisher when it is nessessary.
③If the fire cannot be extinguished or spreads out of the machine, please call local emergency number (e.g. 998) and evacuate from the buildings.
④Do not continue operating the machine until you contact us.

❻ Smoke Safety

1. When you use the machine, laser will produce visible and invisible aerosol, gas, vapor and particles (they all called "smoke" here). Due to the material radiated by laser, the smoke which may include carbon monoxide and other chemicals that harmful to health.
2. Do not forget the local air-quality regulations and comply with the local regulations.

❼ Material Safety

1. Please use following material for laser engraving:wood, leather and cardboard.
2. Do not use following material for laser engraving:metal, transparent material, reflective material, etc.
3. The size of the material must be less than 220×140mm.

❽ Laser Safety

1. The laser can damage your eyes and skin, we provide a pair of protection glasses to protect your eyes. Please wear protection glasses when the machine is in the laser engraving mode.
2. Keep safe distance of at least 1 meter from the machine when it works.

❾ Warning

1. Do not look at the laser directly with naked eyes.
2. The modification or repair of the machine without permission may cause laser radiation.
3. Do not run the machine unattended.





2.The parameters of laser engraving

Technology	Laser engrave
File Format	bmp
Engraving Size	220×140 (mm²)
Picture Type	bitmap
Pixel Size	0.05-0.1 mm（suggested 0.1）
Laser Intensity	1-100%
Laser Height	1-100mm
Picture Mirror	Suggest to keep default value
Rated power	1500mW
Supported Materials	Wood, leather, paper, etc.

Attention:

1. It is recommended to set laser intensity to 15% and laser height to 25mm for engraving kraft paper we provided; set to 25% and 52mm for engraving wooden board we provided.
2. Laser engraving is designed to be used within ambient temperature ranging 15°C-50°C. Working outside this limit may result in low quality engraving.
3. When switching working modes (3D printing mode and laser engraving mode), you must first power off the machine, then swap the corresponding cables on the green port.

3.Packing list


Laser head 1PCS
Zip tie 5PCS

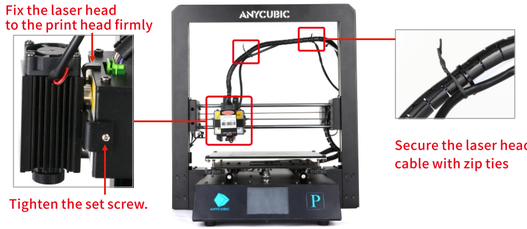

Laser protection glasses 1PCS


Wooden board 3PCS

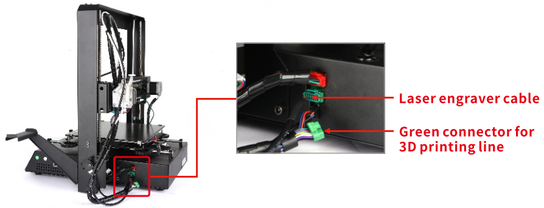

Kraft paper 5PCS

4. Installing

❶ **The machine must be turned off first. Fix the laser head on the print head. And then tighten the set screw on one side of the laser head.**



❷ **Remove the green connector. After that, connect the laser engraver's cable to this green port.**



Note: Please refer to the user manual in the SD card for detail information of the laser engraving.

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