

使用手册

Use manual



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盐城市迪雷帕尔自动化科技有限公司

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欢迎使用DVP系列激光雕刻机！

我们本着“性能，安全，美观”共存的设计理念，为客户提供最具有性价比的产品，我们有着强大的技术研发实力，产品涵盖了激光和CNC多个系列产品，脱机雕刻机均有售。整机所装配的激光头驱动控制板，激光雕刻主控制板，CNC雕刻主控制板均为自行设计和生产，品质更有保证，服务更快捷高效。

Welcome to use DVP Series laser engraving machine! We have the spirit of "performance, security, beauty" coexistence of the design concept, to provide customers with the most cost-effective products, we have a strong technical research and development strength, products cover a number of laser and CNC series products, offline engraving machine are available for sale. The whole machine is equipped with the Laser Head Drive Control Panel, laser Engraving main control Panel, CNC Engraving main control board for its own design and production, better quality assurance, faster and more efficient service.

警告

请不要自己随意刷固件，否则控制板可能无法使用，严重的会导致芯片永久性损坏。如果不小心丢失了固件，请按照手册里的步骤，重新刷入自带的固件。感谢您的使用！

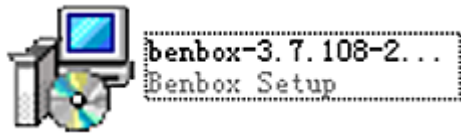
WARNING

Please do not brush the firmware yourself, otherwise the dashboard may not be used, serious will lead to permanent chip damage. If you accidentally lose your firmware, follow the steps in the manual to brush the firmware back in. Thank you for your use!



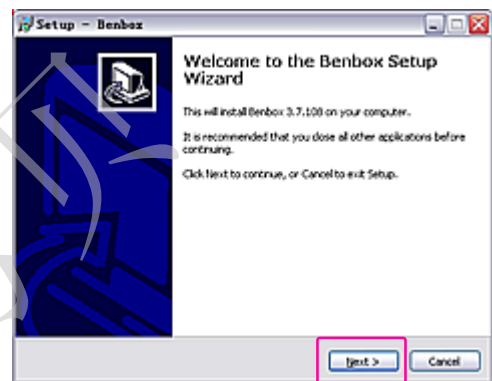
步骤一：安装电脑端软件

Step One: Install computer-side software



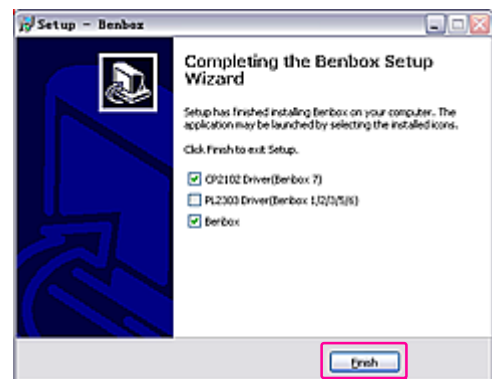
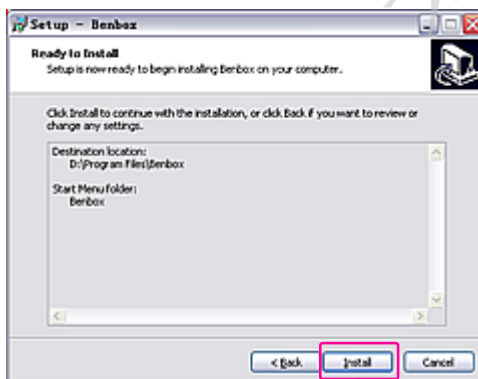
在随机附带的软盘中找到“benbox-3.7”软件。

Locate the "benbox-3.7" software in the complimentary floppy disk.



双击安装，选择语言，一直选择“Next”。

Double-click Install, select a language, and always select "Next".



选择“Install”，直到安装完成，选择“Finish”。

Select "Install" until the installation is complete and select "Finish".



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点击“下一步”完成软件自带的驱动。

Select "Accept agreement" and press "Next".

Click "Next" to complete the drive with the software.



选择“接受协议”，并且按“下一步”。



点击“完成”，您的软件已经安装成功。

Click "Finish" and your software has been successfully installed.

步骤二：安装控制板驱动软件

Step Two: Install the control Board driver software



Driver.exe

在随机附带的软盘中找到“Driver.exe”软件。

Locate the "Driver.exe" software in the complimentary floppy disk.

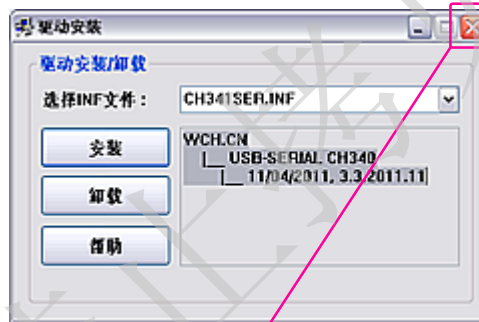


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点击“安装”，这可能需要几分钟时间，请耐心等待。出现结束画面，点击“确定”。
Click "Install", this may take a few minutes, please be patient.
When the end screen appears, click OK.



关闭安装页面，结束安装。
Close the installation page and end the installation.

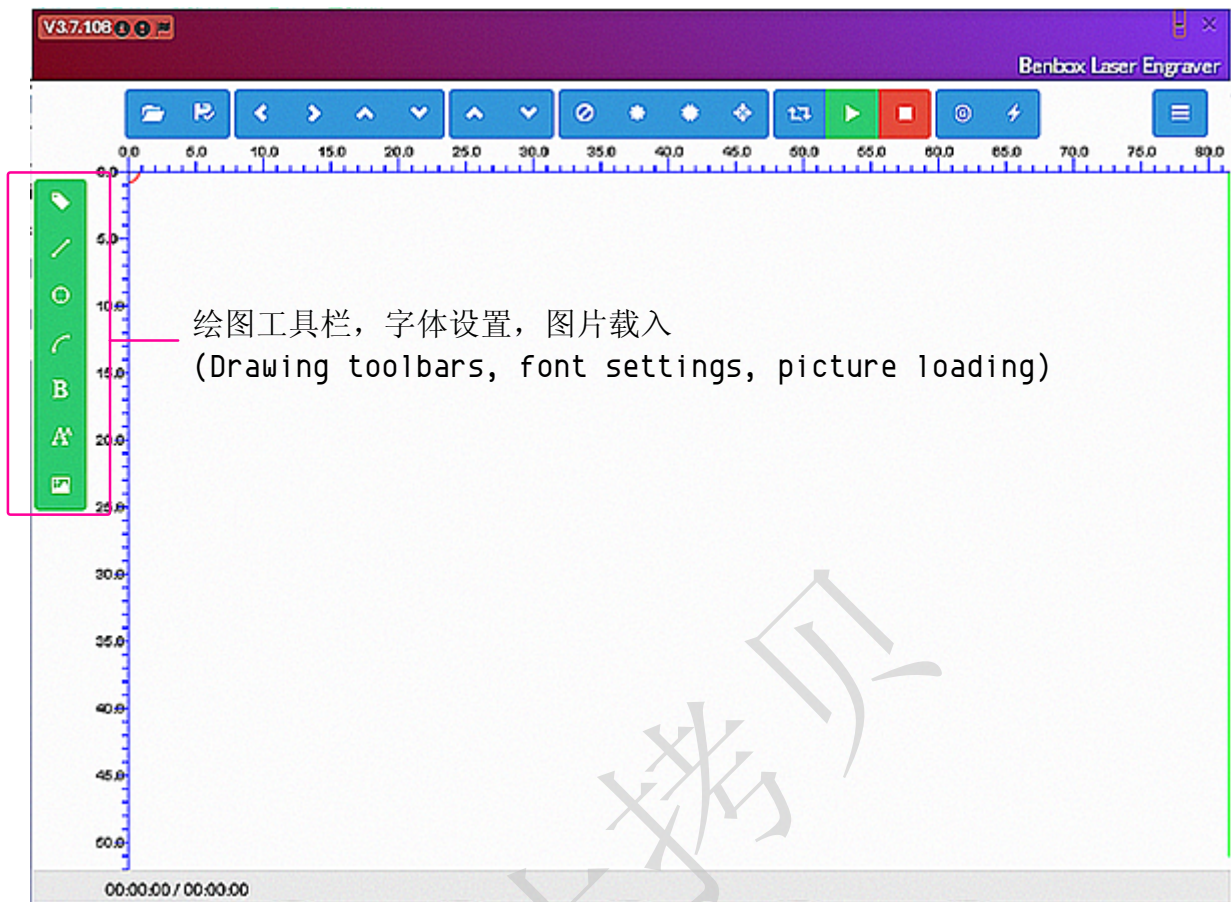


您已经完成了所有软件的安装，接下来试着打开BENBOX软件，试着做点什么！
You have finished installing all the software, then
try to open the Benbox software and try to do
something!



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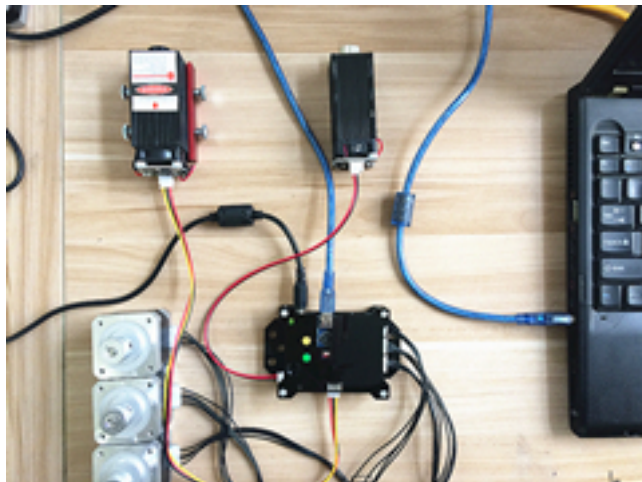
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绘图工具栏，字体设置，图片载入
(Drawing toolbars, font settings, picture loading)

- 1) : 打开“Benbox”软件。
- 2) : 插好USB线，连接机器到电脑。
- 3) : 按绿色电源按钮，开机。

- 1: Open "Benbox" software.
- 2): Plug in the USB cable, connect the machine to the computer.
- 3): Press the Green power button, boot.



提示

新版本的控制板均采用了电子开关，绿色为开机键，黄色为关机键，旧版本的为机械式自锁开关。

Tips

The new version of the control board are used electronic switches, green Color for the power-on key, yellow for the shutdown key, the old version of the For mechanical self-locking switch.



为了能一次性成功，我们必须设置一些简单参数！

For a one-time success, we must set some simple parameters!



4) : 右键“我的电脑”，选择“管理”。

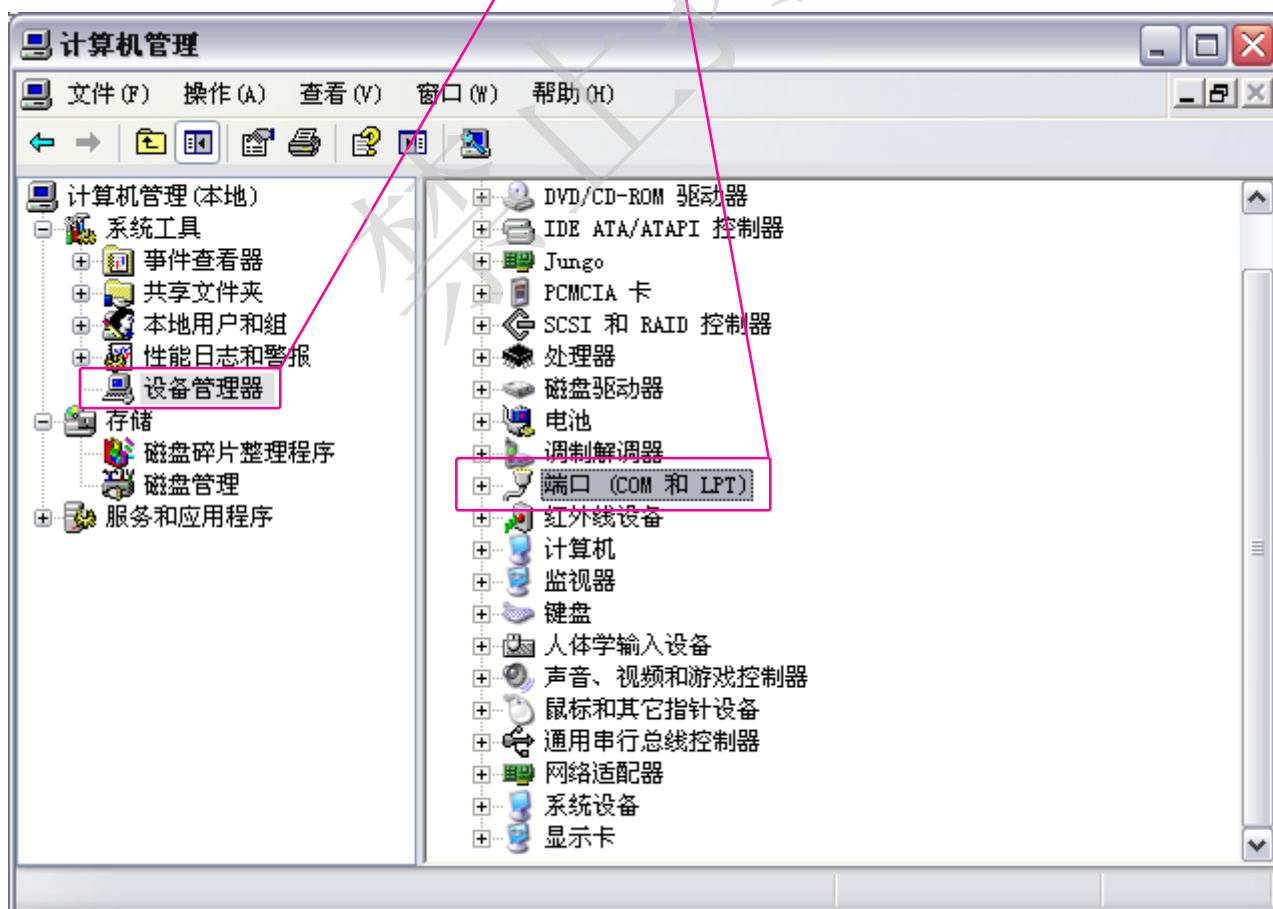
5) : 选择“设备管理器”。

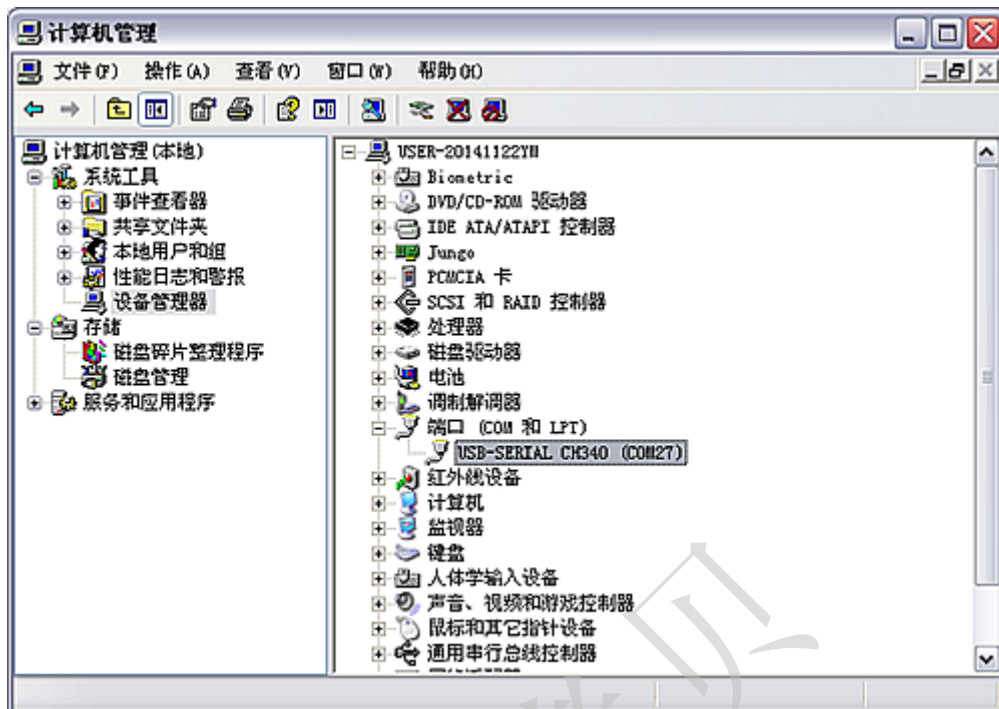
6) : 选择“端口 (COM 和 LPT)”。

4) : Right-click "My Computer" and select "Manage".

5) : Select Device Manager.

6) : Select Ports (COM and LPT).





7): 查看并且记住设备串口号, 设备型号为: USB-SERIAL-CH340(COMxx)。

7): View and remember the device serial number,
device model: usb-serial-ch340 (COMXX).

提示

如果有2个以上相识设备, 无法判断哪一个, 您可以拔插USB数据线, 此时电脑上会显示消失和重新出现的设备型号, 这个就是你所需要的设备。

Tips

If you have more than 2 acquaintance devices, cannot determine which one, you can plug the USB cable, this time the computer will Show the lost and renewed device model, this is the device you need.

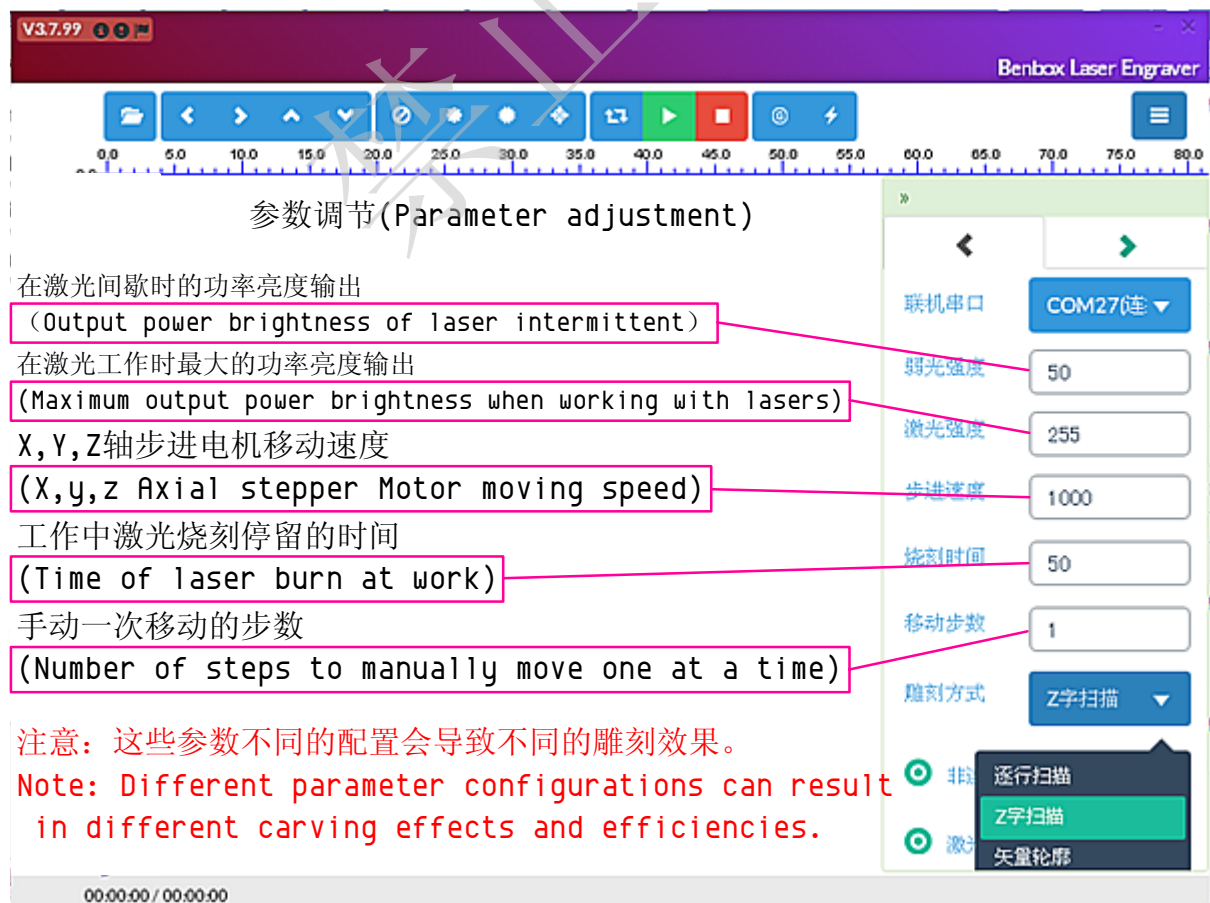
现在, 已经快完成了, ^_^

Now, it's almost done, ^_^



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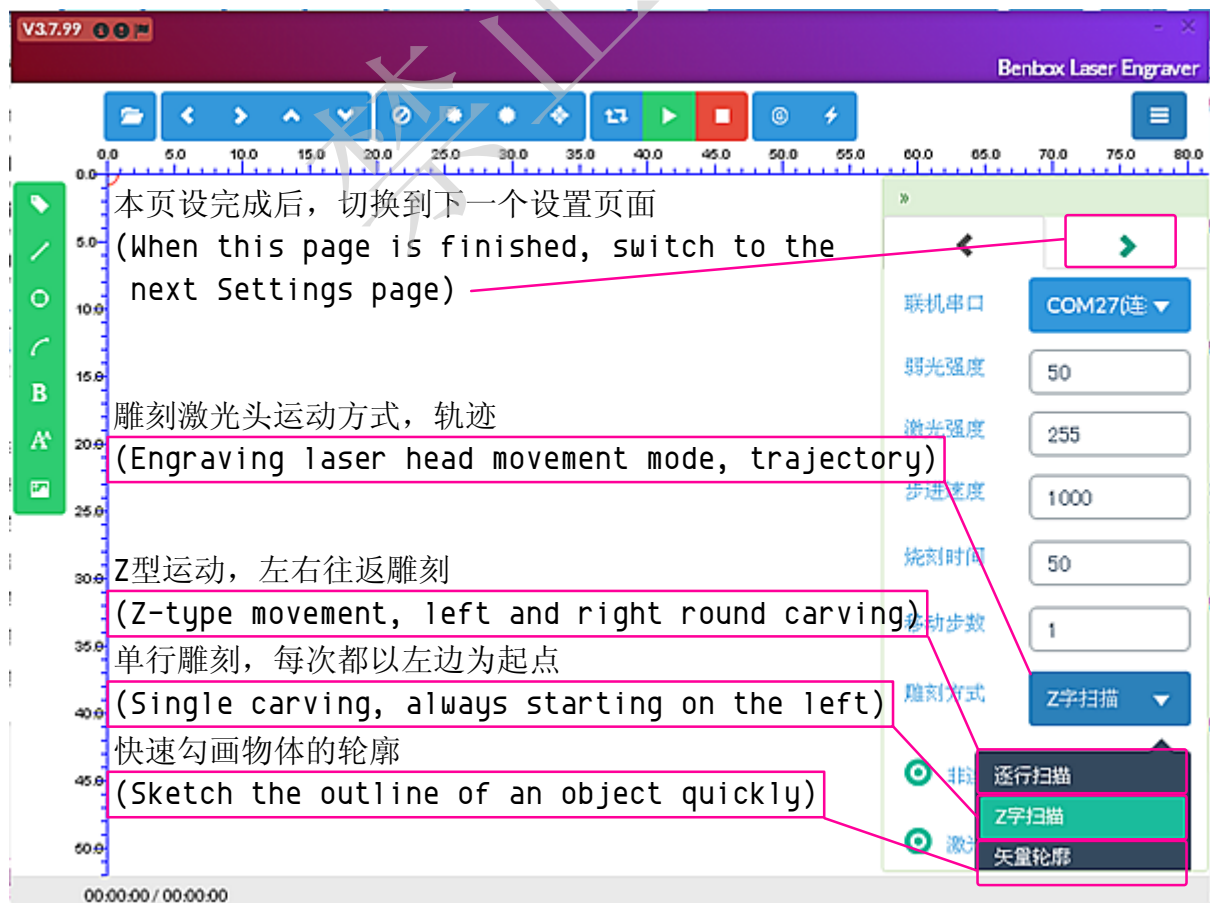
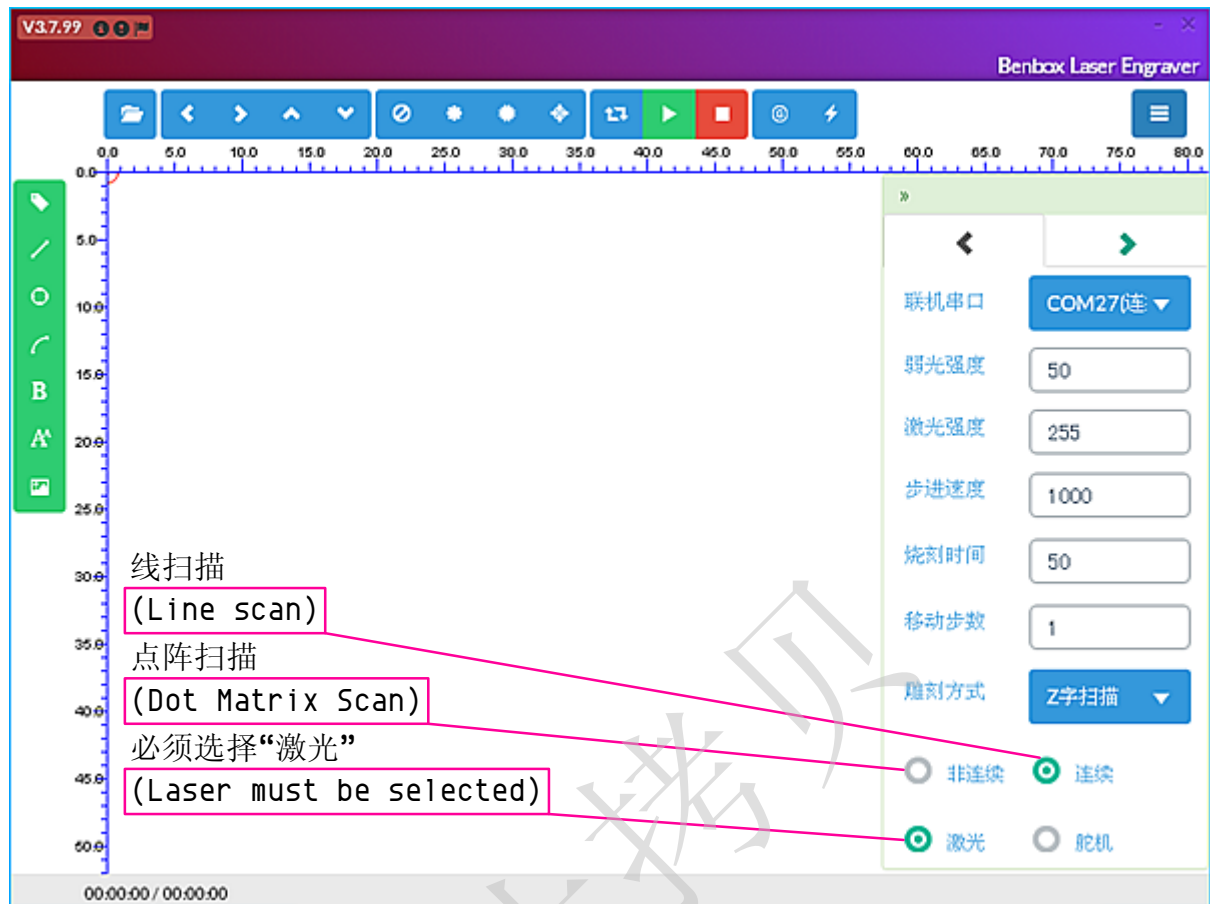
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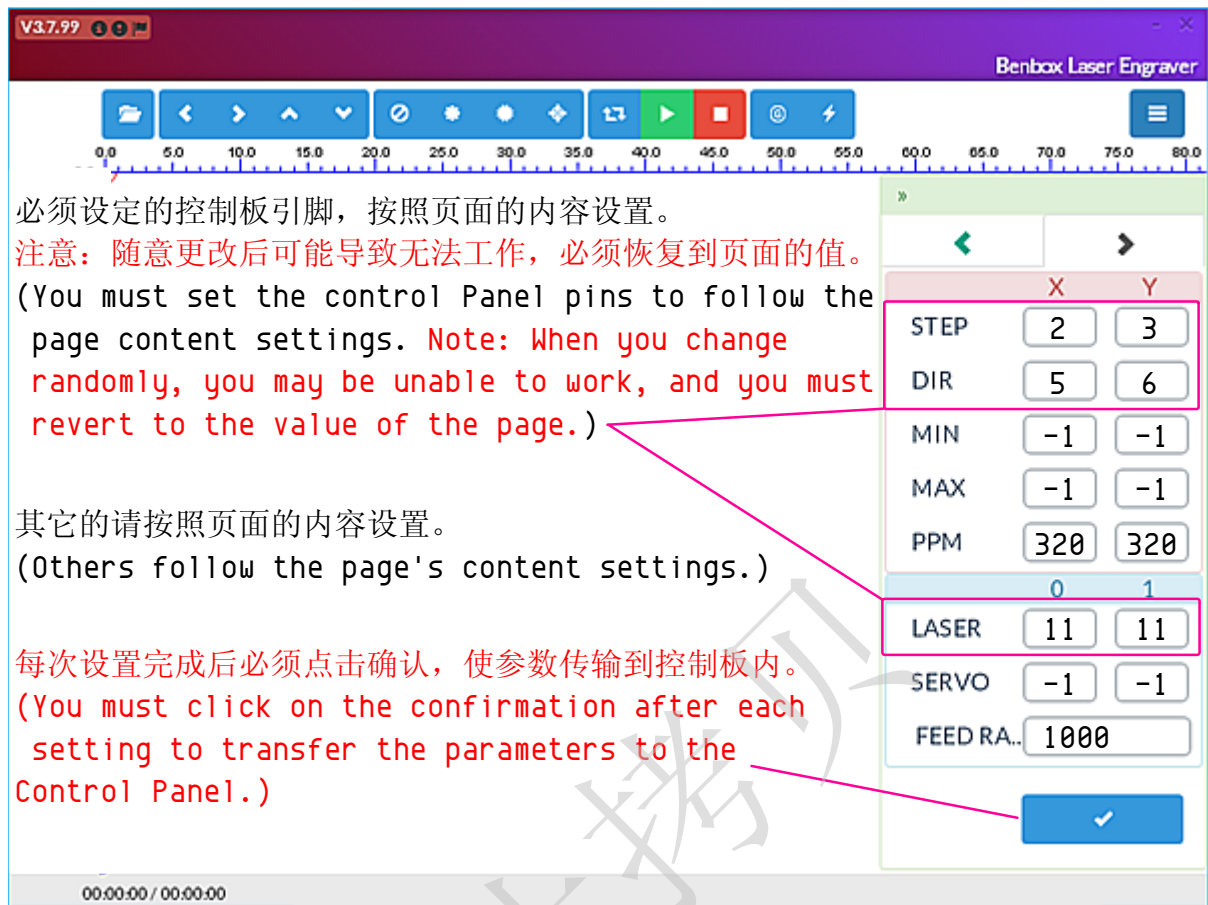
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必须设定的控制板引脚，按照页面的内容设置。

注意：随意更改后可能导致无法工作，必须恢复到页面的值。

(You must set the control Panel pins to follow the page content settings. Note: When you change randomly, you may be unable to work, and you must revert to the value of the page.)

其它的请按照页面的内容设置。

(Others follow the page's content settings.)

每次设置完成后必须点击确认，使参数传输到控制板内。

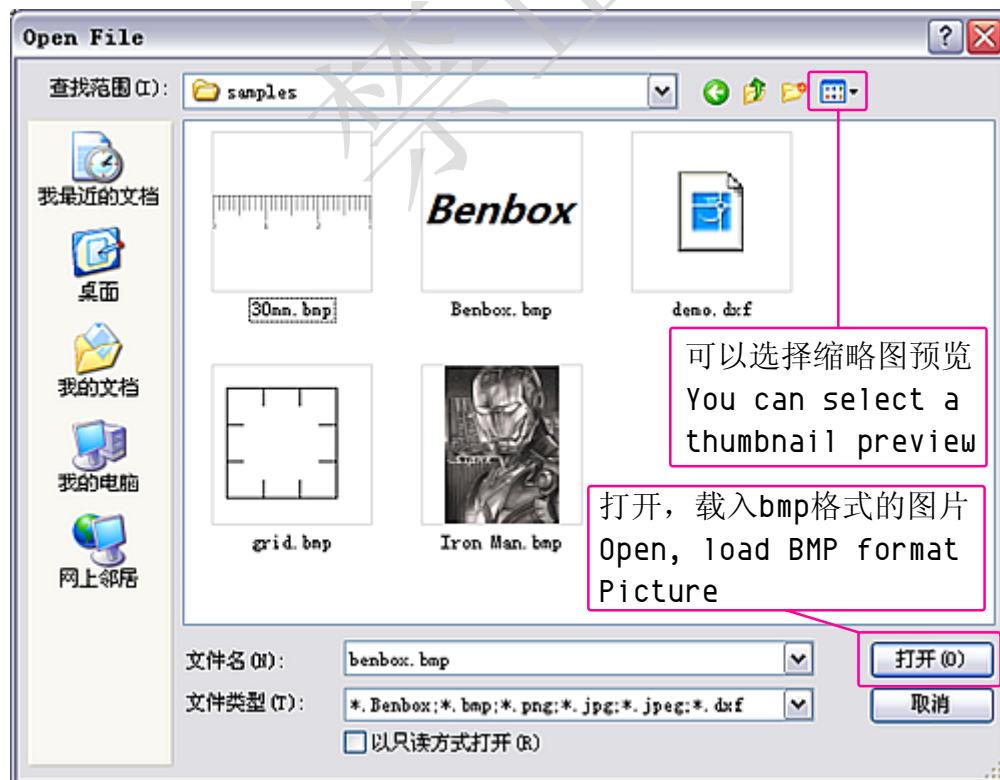
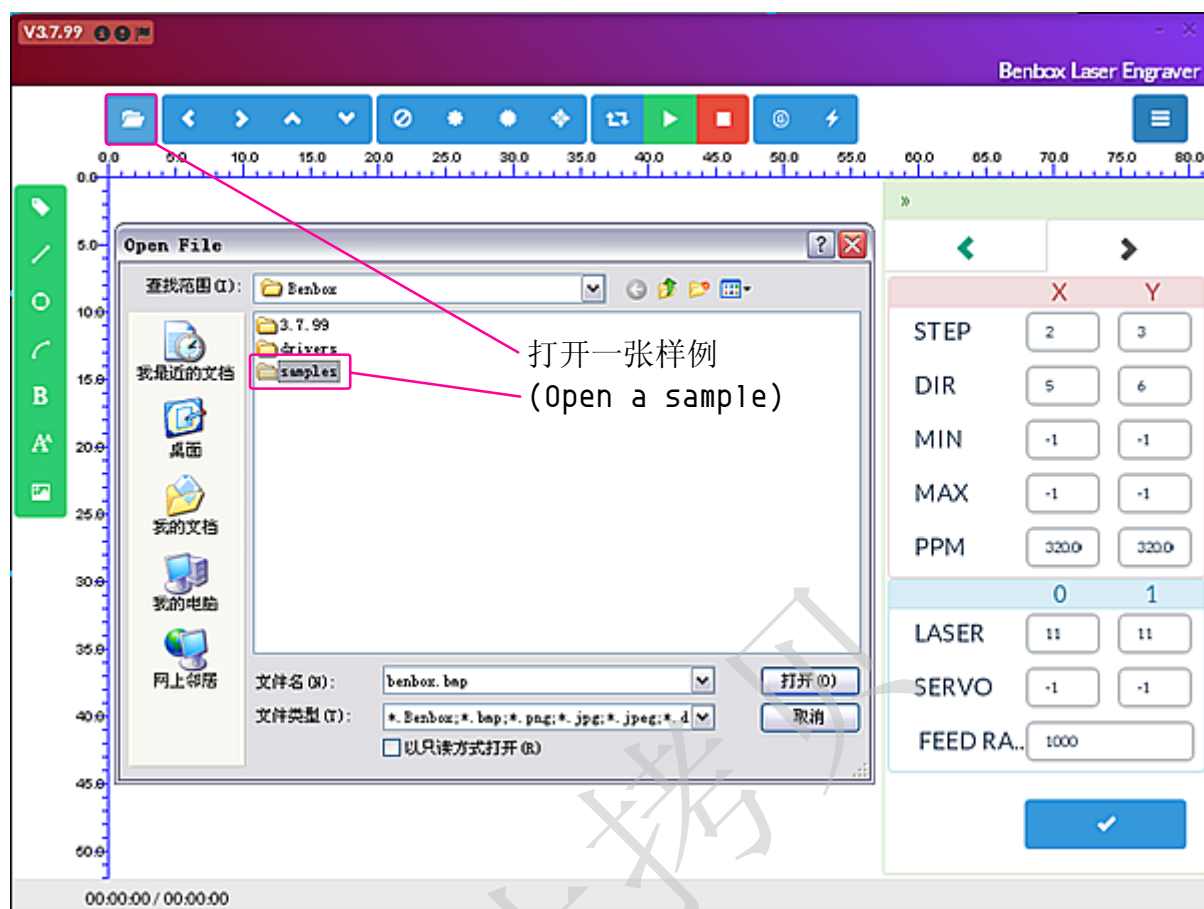
(You must click on the confirmation after each setting to transfer the parameters to the Control Panel.)

恭喜，你已经把所有参数全部熟悉了一遍，让我们正式开始吧。
Congratulations, you have all the parameters of the familiar, let us officially start.



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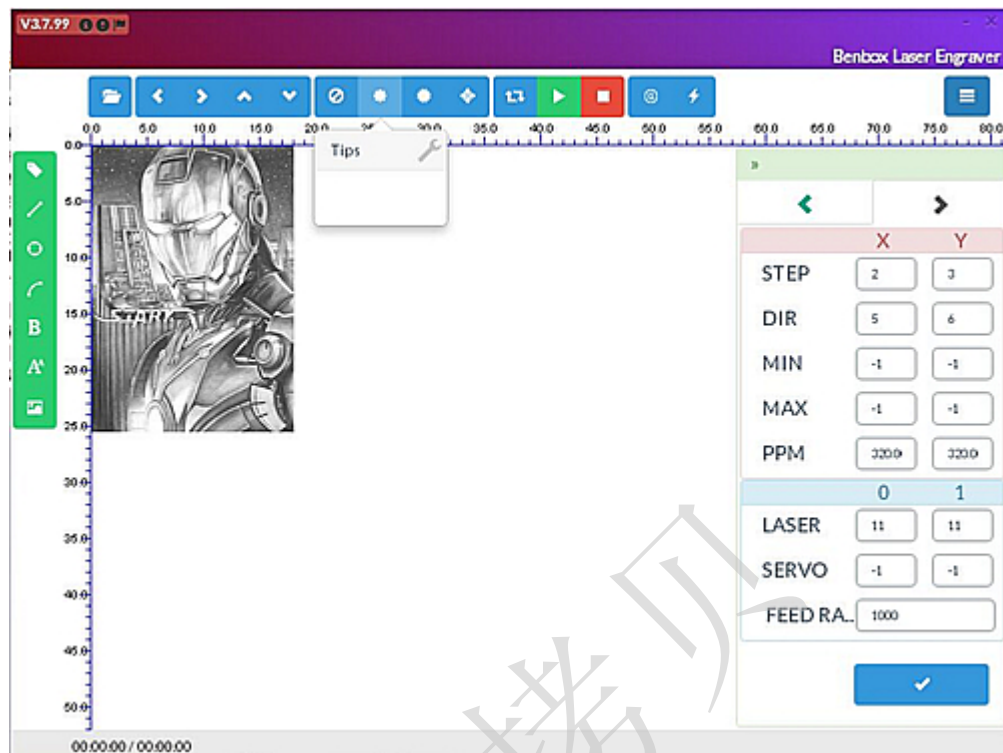
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是时候来操控机器了！

点击这个按钮，打开弱光，这是用来定位雕刻图片的起点。

It's time to manipulate the machine! Click this button to turn on the weak light, which is used to locate the starting point of the carving picture.



移动4个方向键，看看机器是不是移动方向一致。

Move 4 arrow keys to see if the machine is moving in the same direction.





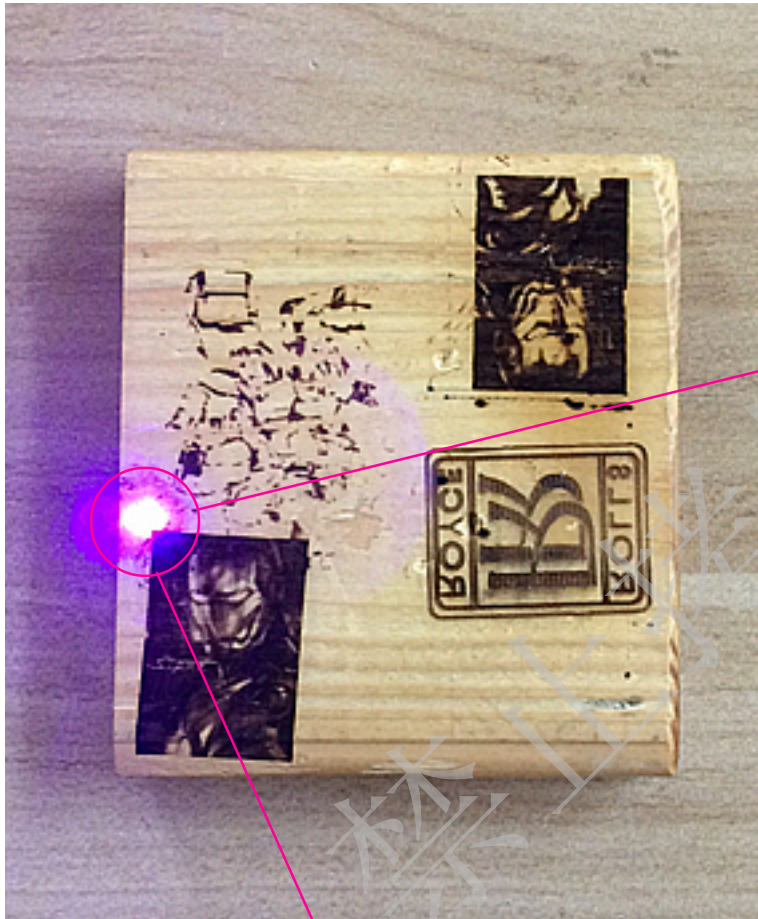
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控制电机，把激光移动到要雕刻的起点位置。

Control the motor and move the laser to the starting position to be carved.



起点（0点），画面的左上角。
Starting point (0points),
The upper-left corner of
the screen.

警告：

此操作必须带上防护眼镜，
防止意外伤害眼睛！

Warning:

This must be done with
protective glasses, Prevent
accidental injury of eyes!



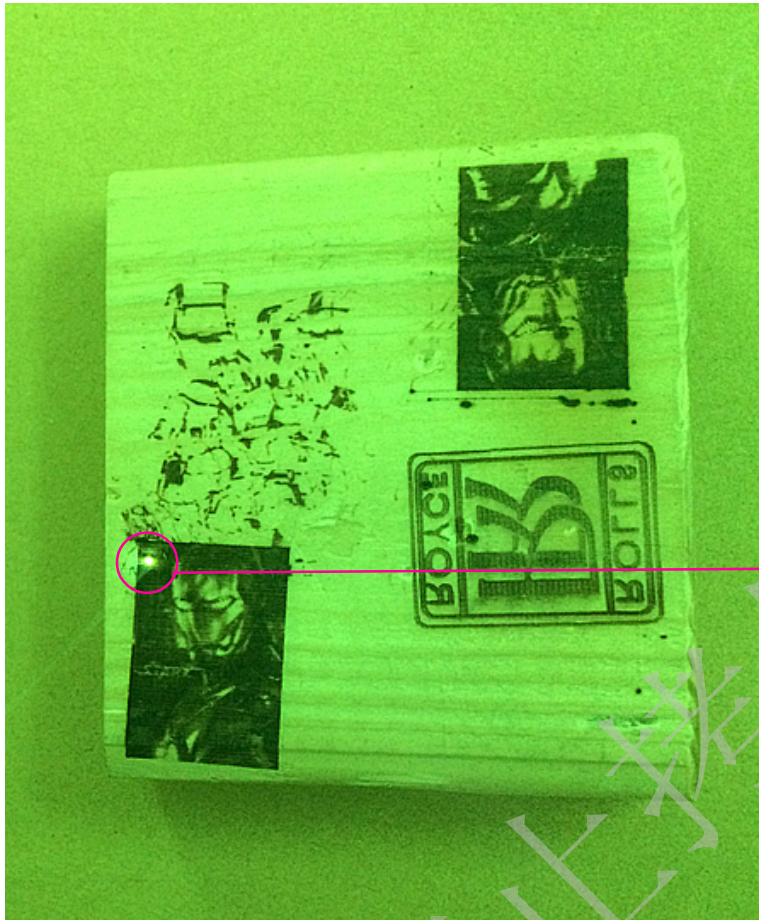
旋转激光头部，调整激光聚焦点，使激光焦点最小，能量最集中，
此时可以看到焦点附近有一些热量，能烧灼木板和纸张，偶尔会
产生烟雾，不必担心！

Rotate the laser head, adjust the laser focusing
point, the laser focus is minimal, the energy is most
concentrated,
At this point you can see that there is some heat near
the focus that can burn wood and paper and
occasionally Generate smoke, don't worry!



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焦点已经调到最合适。

The focus has been tuned to the most appropriate.

我们检查一下全功率模式，激光强度是否足够。

Let's check the full power mode and the laser strength is sufficient.



最后停止所有检测。

Finally stop all detections.



点击开始按钮，工作开始，期待你的作品吧！

Click the Start button, start work, look forward to your work!