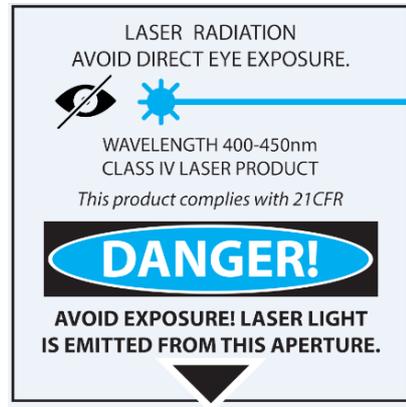


Panowin F1 Laser Head User Manual

PANOWIN TECHNOLOGIES CO.,LTD.

WARNING



WARNING: Take necessary protection before operating on the Laser Head.



WARNING: Make sure the Power is OFF before assembling the Laser Head and connecting the cable.



CAUTION: In case of emergency unplug the Panowin F1 from the power outlet.

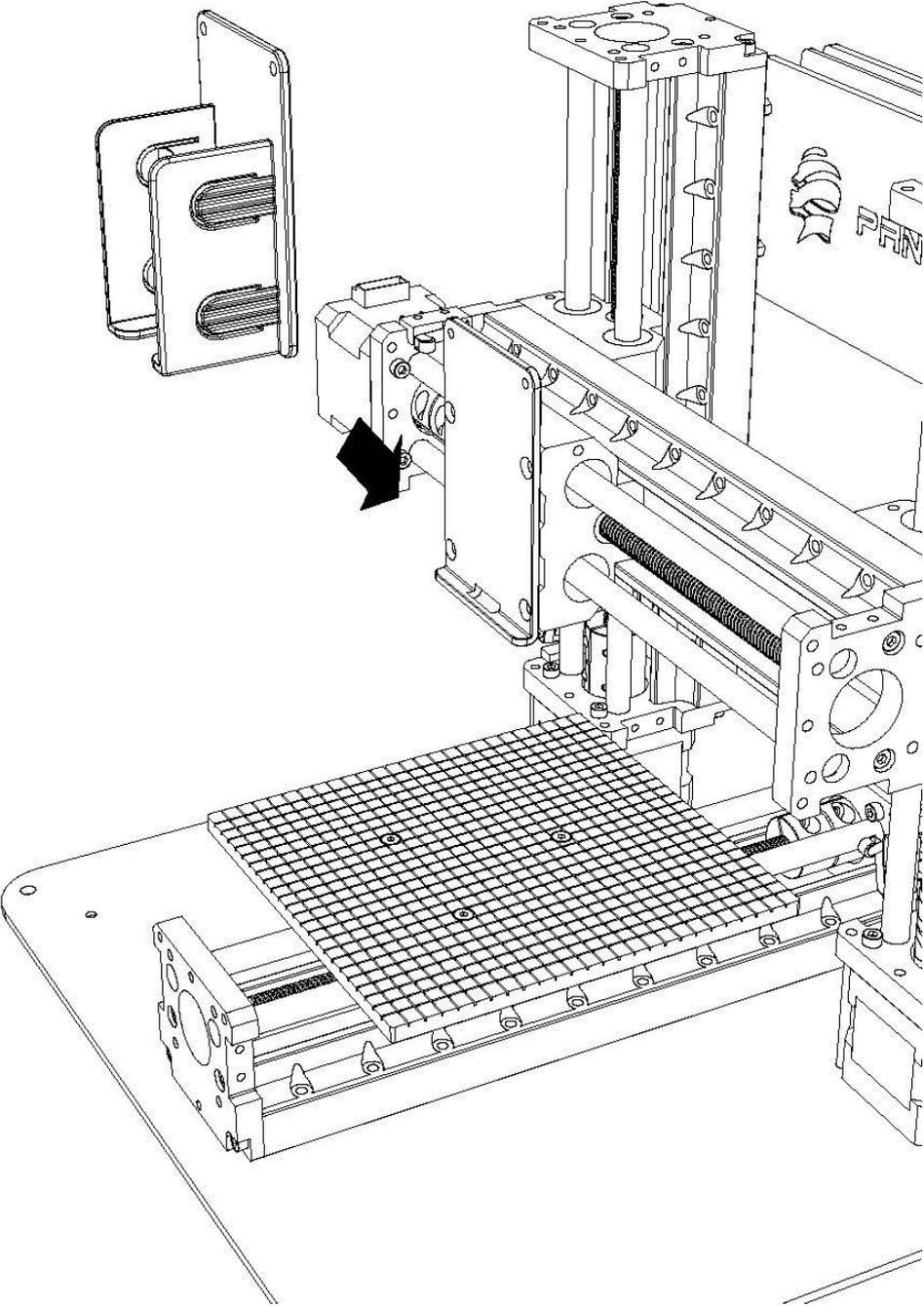


WARNING: Carefully monitor the Panowin F1 during operation. Do not leave unattended.

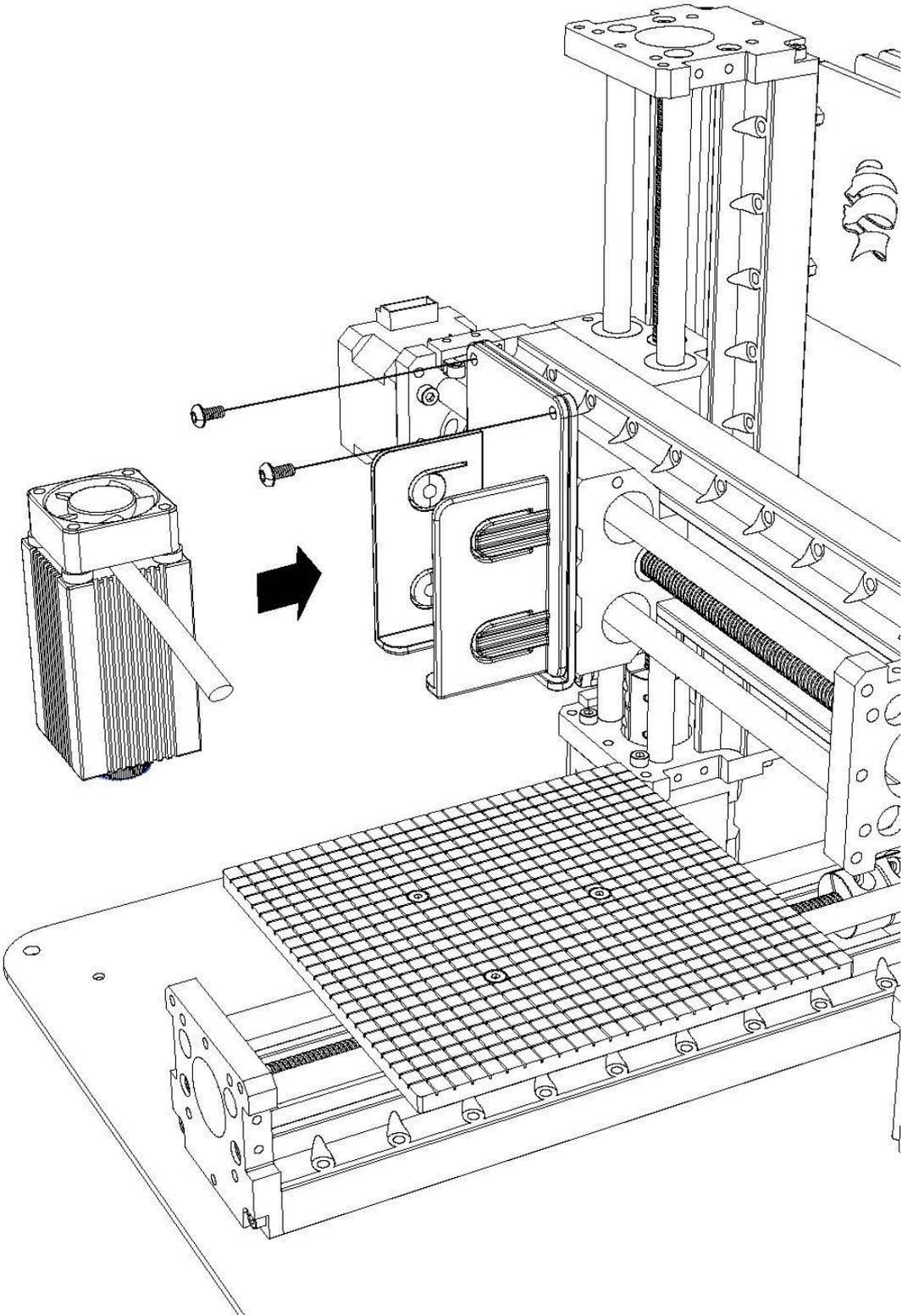


WARNING: The Panowin F1 contains moving parts that can cause injury. Keep hands, body parts, loose clothing, pets and children

STEP1. Assemble the Laser Head Holder to the mount middle plate.

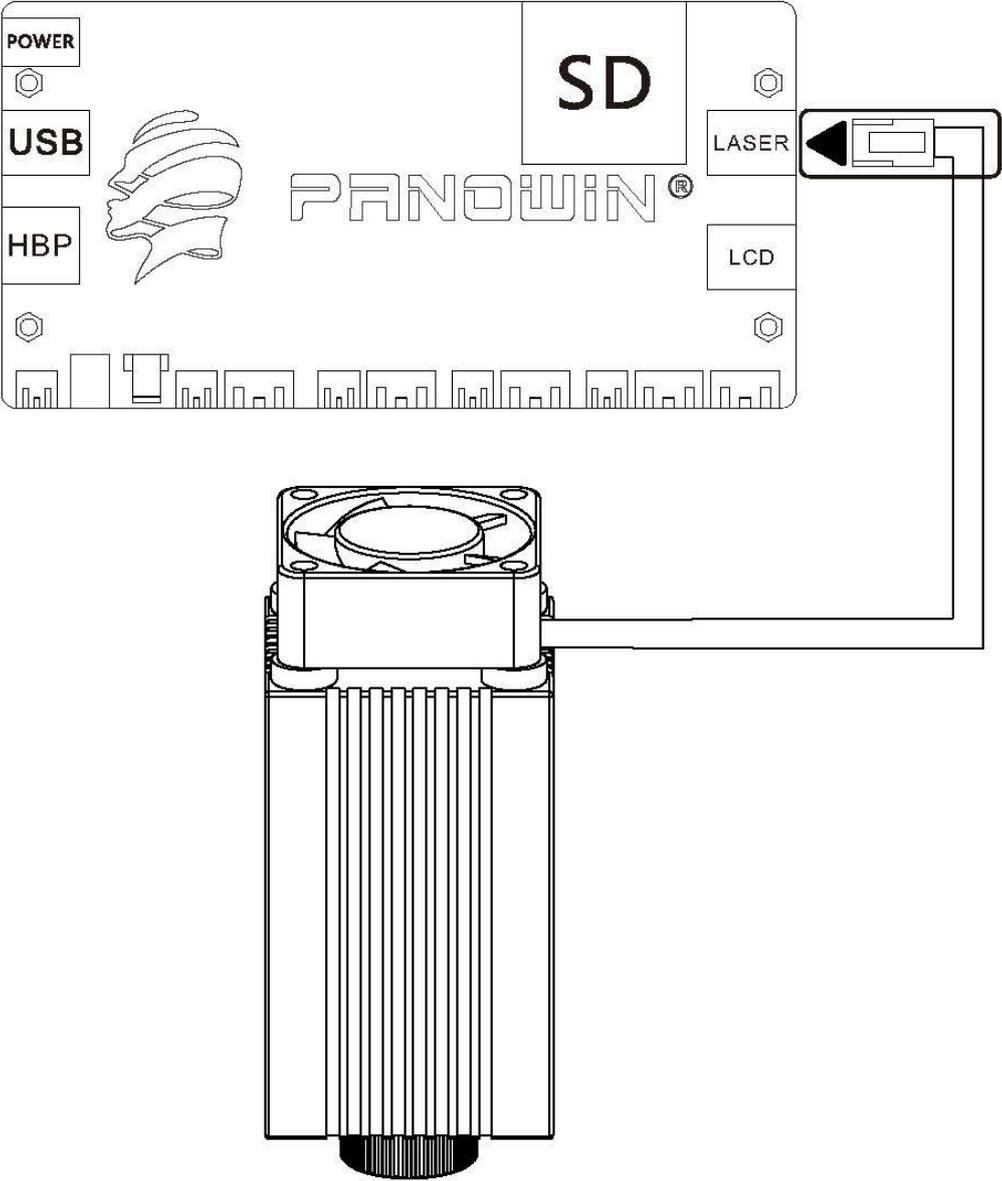


STEP2. Fix the Laser Head Holder by screws and put the Laser Head onto the Holder.



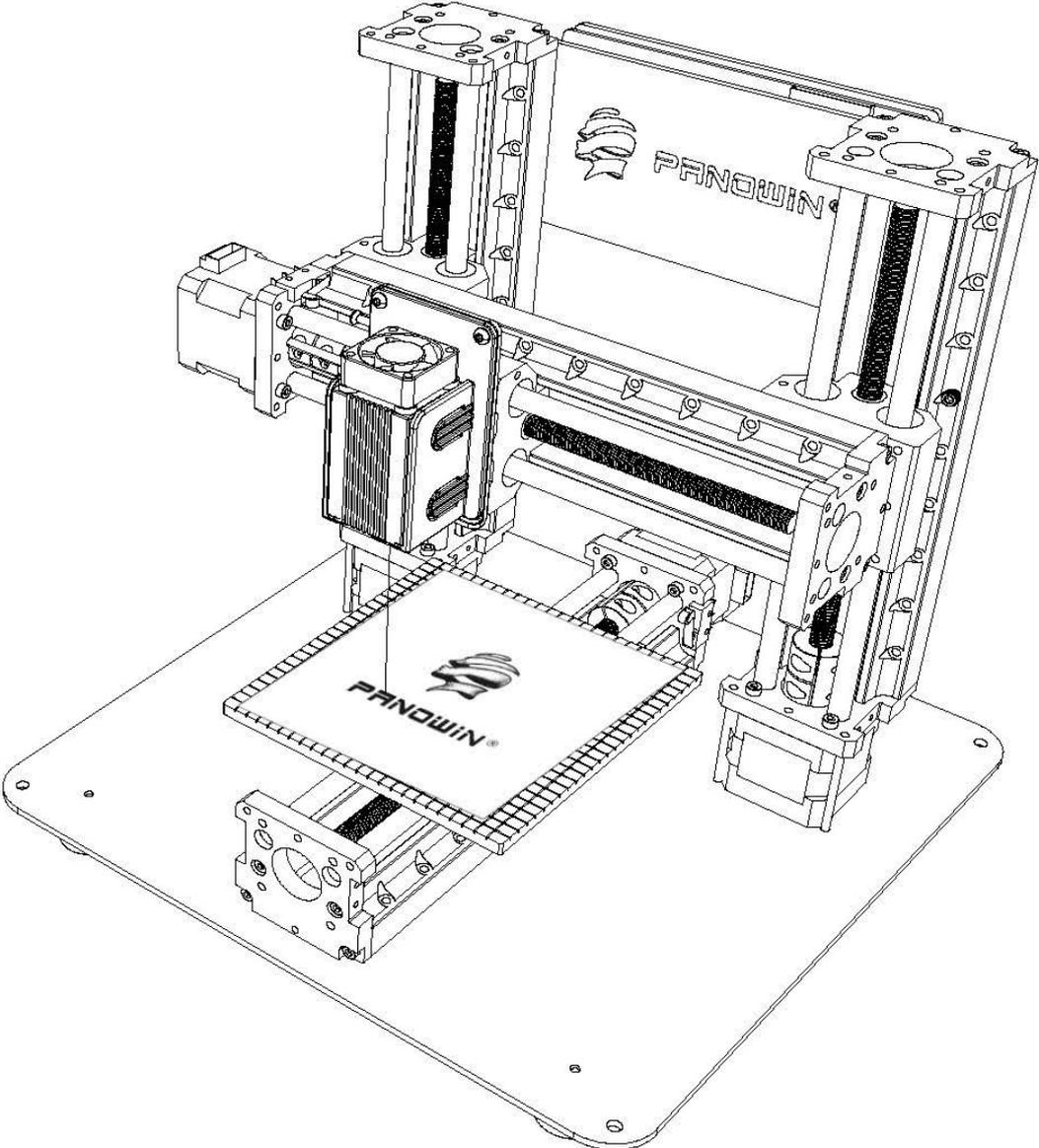
STEP3. Connect the cable to the LASER interface of the main control board.

WARNING: Make sure the power is off while connecting the cable!



STEP4. Work with the engraving software.

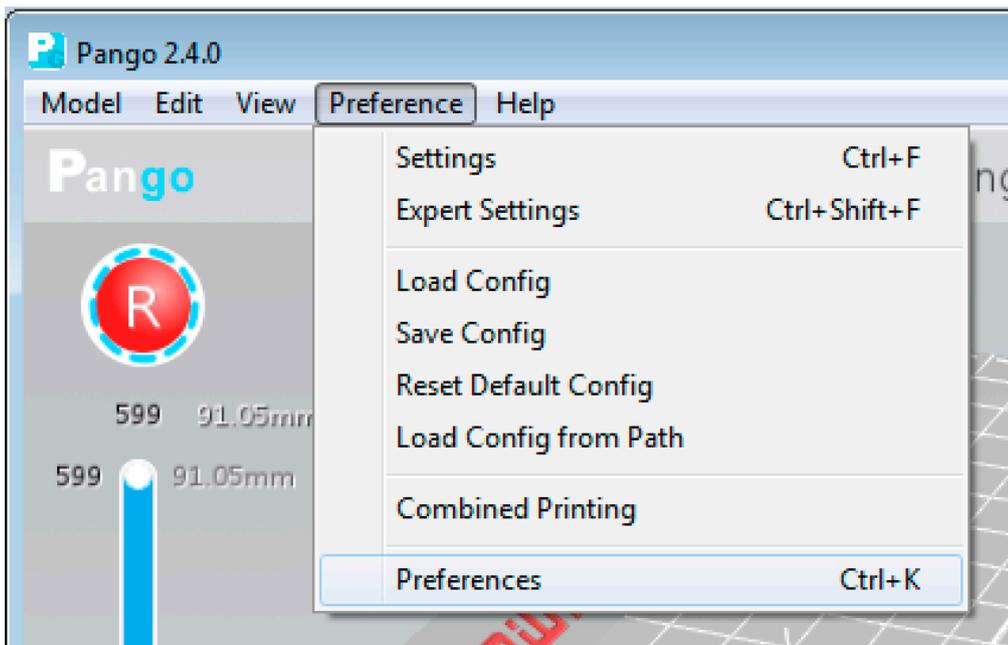
WARNING: Take necessary protection while operating!

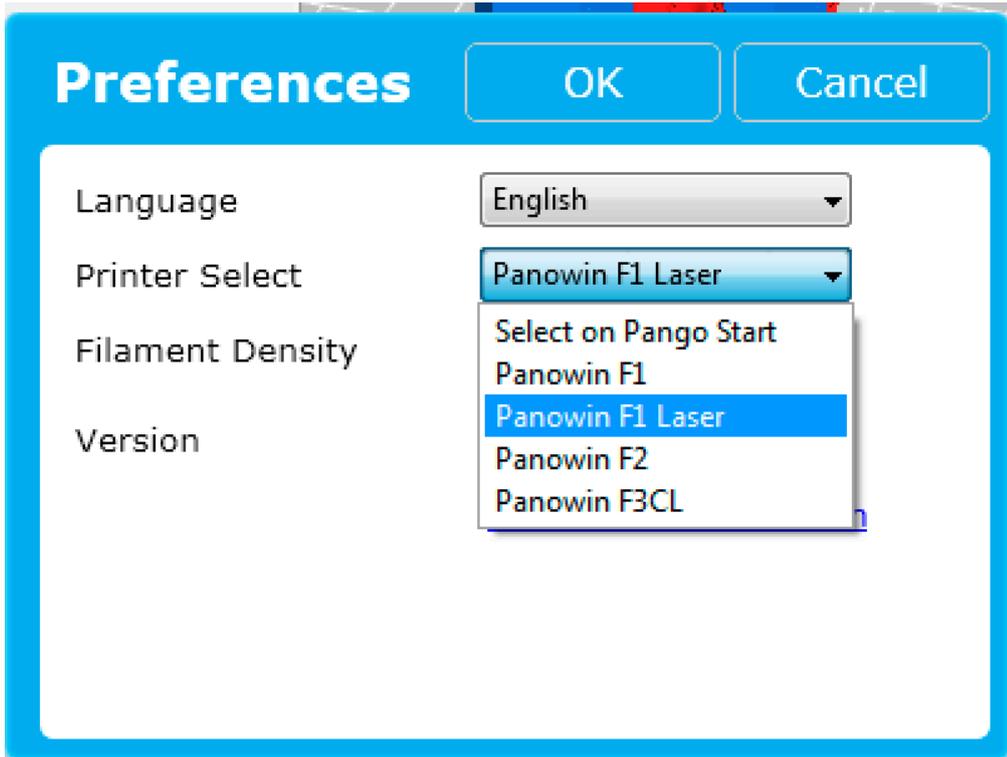


Step 5: Pango laser engraving function:

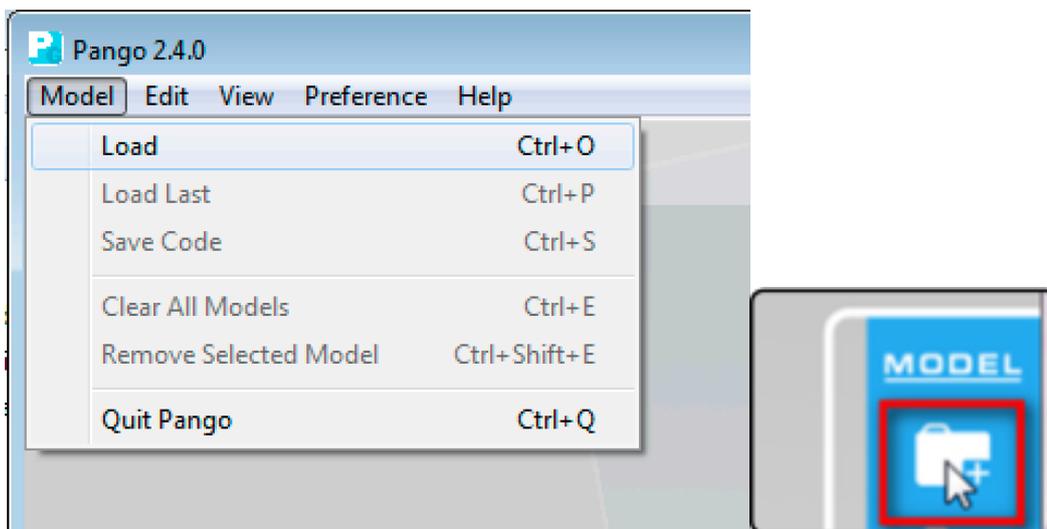
Cautious: Please make sure your 3D printer installed the laser attachment properly, and follow the next steps to use the Pango laser cutting and engraving function.

1 . Go to “Preference---Preferences” , set the printer as “Panowin F1 Laser” mode. After restart the Pango you can enter the laser mode.





2. Go to “Model---Load” or click MODEL icon in the tools bar, select a .jpg or.png file



And the platform will appear the image of laser engraving or laser path of laser cutting

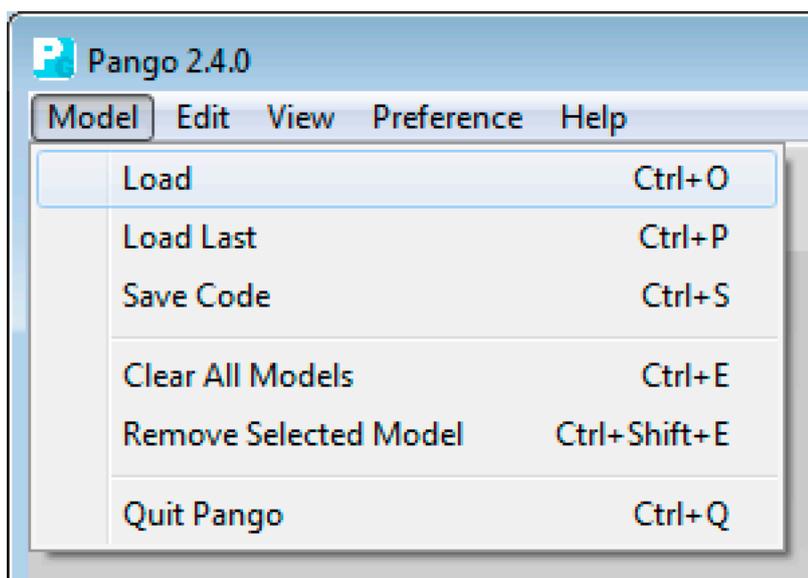
Laser engraving

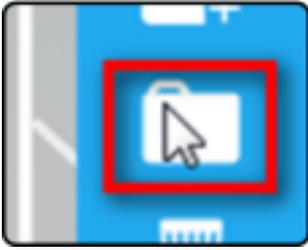


Laser cutting

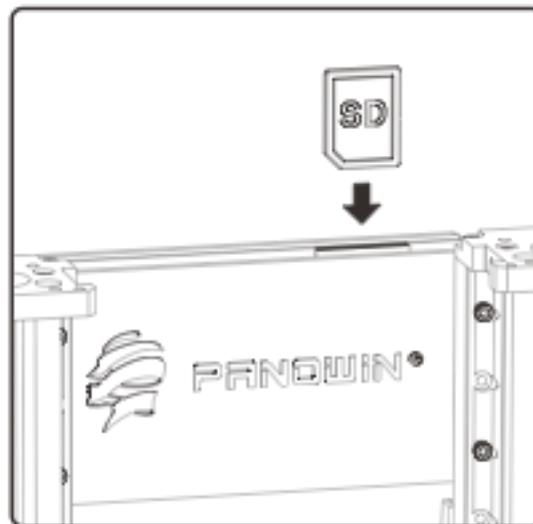


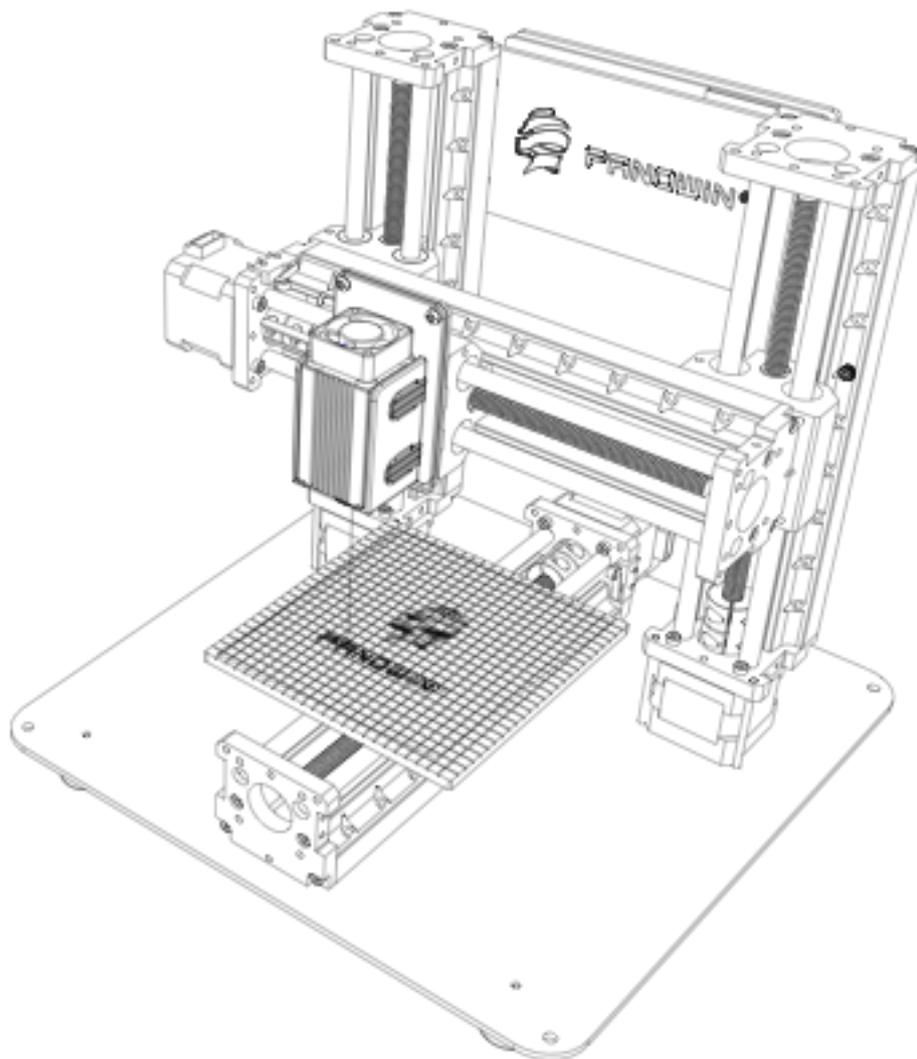
3. Go to “Model---Save Code” or click save code icon on the tools bar, save the .pcode file in the SD card





5. Insert the SD card into printer and start printing.





Please fix the engraving material stably on the platform.

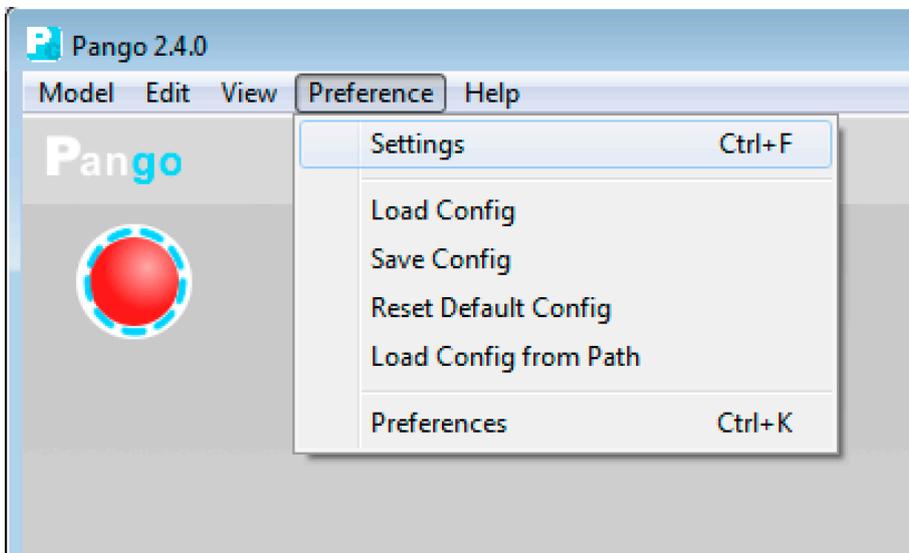
Step-6 Setting

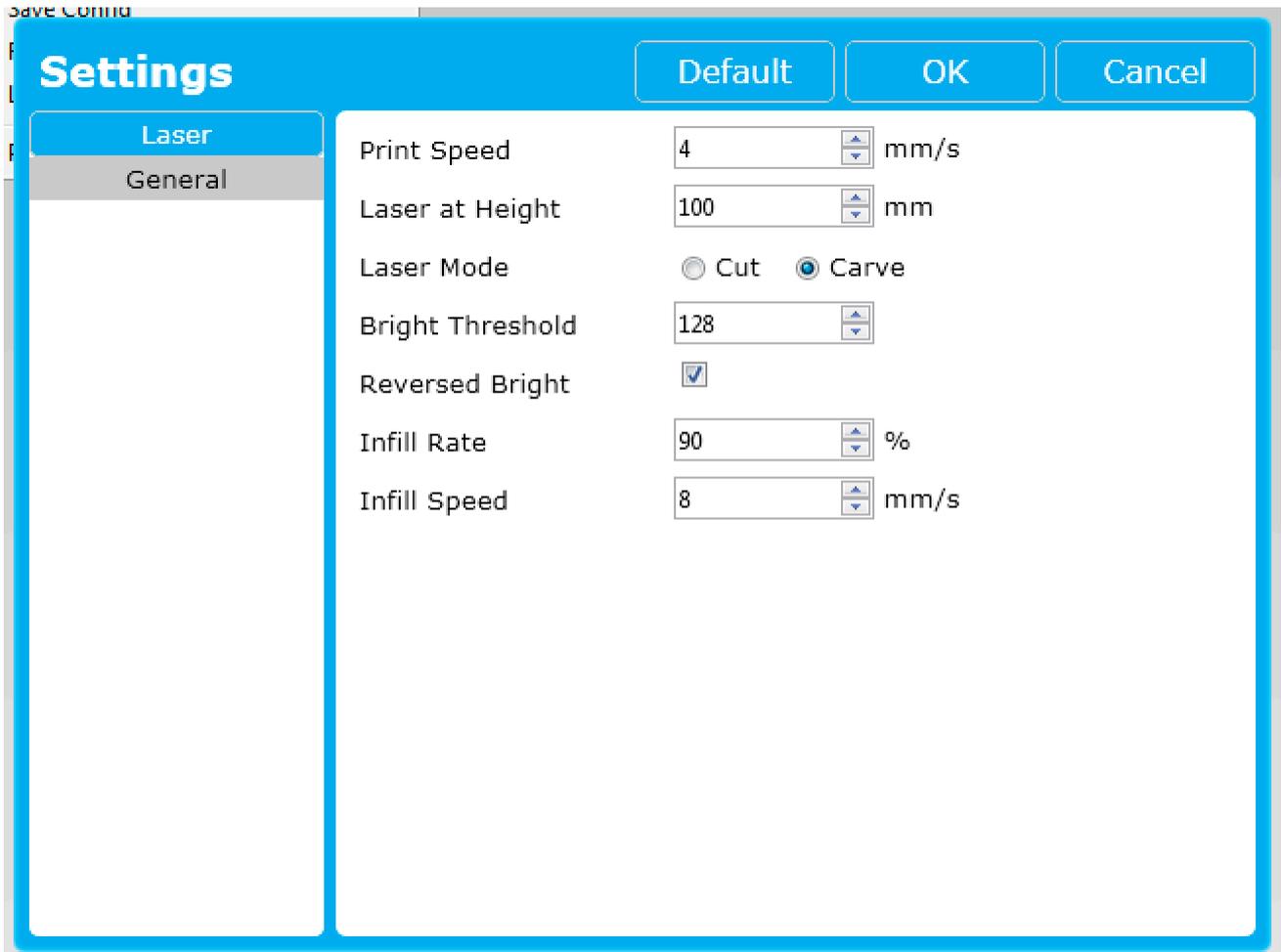
Cautious:

Avoid any part of body contact with laser beam. (Children under 15 years old are not allowed to use the laser function.)

Please install the enclosure or wear the shield glasses before start engraving.

Go to “Preference—Settings” to open the parameter setting page





Printing speed: Laser engraving or cutting speed. Higher the speed, shorter the engraving/cutting time, lighter the engraving trace. Slower the speed, longer the engraving/cutting time, deeper the engraving trace.

Laser at Height: The distance between laser and platform. The distance should be same with the laser focus length to reach the best engraving quality. The laser focus distance could be adjusted by adjusting the laser lens.

Laser Mode Cut: Pango will analyse the image edge and scale and fill it with vector line. Can be used for the simple logo or vector file engraving.

Laser Mode Carve: Pango will transform the image into bitmap. Can be used for photograph engraving.

Bright Threshold: The cutting mode will transform the colored picture into black and white. The bright threshold value will set the demarcation of the black and while.

Reversed Bright: Reverse the black and white.

Infill Rate: Infill rate of the laser cutting mode.

Infill speed: Engraving speed of the laser cutting mode.

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Disclaimer

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Wechat