



User Manual

PHOTON MONO X

Dear customer,

Thank you for choosing **ANYCUBIC** products.

Maybe you are familiar with 3D printing technology or have purchased **ANYCUBIC** printers before, we still highly recommend that you read this manual carefully. The installation techniques and precautions in this manual can help you avoid any unnecessary damage or frustration.

More information please refer to :

1. <http://www.anycubic.com/>

ANYCUBIC website provides software, videos, models, after-sale service, etc.

Please visit our website for technical support and we are likely to answer or solve all the questions for you!

2. Facebook page and Youtube channel as shown below.



ANYCUBIC Website



Facebook page



Youtube channel

Team **ANYCUBIC**

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Safety Instructions

Always follow the safety instructions during assembly and usage, to avoid any unnecessary damage to the 3D printer or individual injury



Please contact our customer service first if you have any issue after receiving the products.



Be cautious when using the scraper. Never direct the scraper towards your hands.



In case of emergency, please immediately cut off the power of **ANYCUBIC** 3D printer and contact the technical support.



ANYCUBIC 3D printer includes moving parts that can cause injury.



It is recommended to use protection glasses when cleaning/sanding the printed models to avoid small particles contacting eyes.



Keep the **ANYCUBIC** 3D printer and its accessories out of the reach of children.



Vapors or fumes may be irritating at operating temperature.

Always use the **ANYCUBIC** 3D printer in an open and well ventilated area.



ANYCUBIC 3D printer must not be exposed to water or rain.



ANYCUBIC 3D printer is designed to be used within ambient temperature ranging 8°C-40°C, and humidity ranging 20%-50%. Working outside those limits may result in low quality printing.



Do not disassemble **ANYCUBIC** 3D printer, please contact technical support if you have any question.

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Technical Specification

Printing

| | |
|--------------|---------------------------|
| System | ANYCUBIC Photon Mono X |
| Operation | 3.5-inch Color TFT Screen |
| Software | ANYCUBIC Photon workshop |
| Connectivity | USB memory stick |

Specifications

| | |
|---------------------------|---------------------------|
| Technique | LCD Shadow Masking |
| Light source | UV-LED (wavelength 405nm) |
| XY Resolution | 0.050mm 3840*2400 (4K) |
| Z axis Accuracy | 0.01mm |
| Suggested Layer Thickness | 0.01 ~ 0.15mm |
| Suggested Print Speed | MAX 60mm/h |
| Rated power | 120W |

Physical Dimensions

| | |
|--------------|---------------------------------|
| Dimension | 270mm (L) *290mm (W) 475*mm (H) |
| Build volume | 192mm (L) *120mm (W) *245mm (H) |
| Materials | 405nm UV-resin |
| Net weight | ~10.75 kg |

Technical Specification

Recommended Printing Parameters

| | |
|----------------------|--|
| Layer Thickness | 0.05 mm |
| Normal Exposure Time | 2 (for the transparent color resin, it is 2s; for others, such as grey, black, white and skin color resin, it is 1.5s) |
| UV power | 50%(for the transparent color resin, it is 50%; for others, such as grey, black, white and skin color resin, it is 80%) |
| Off Time | 0.5 s |
| Bottom Exposure Time | 40 s |
| Bottom Layers | 6 |
| Z Lift Distance | 8 mm |
| Z Lift Speed | 2 mm/s |
| Z Retract Speed | 3 mm/s |
| Anti-alias | 1 |

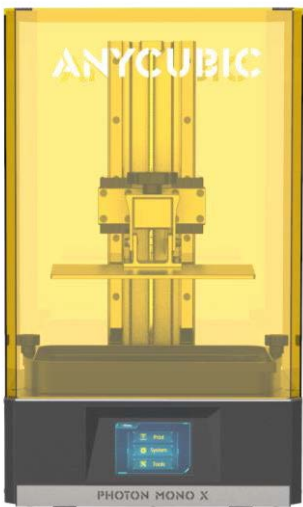

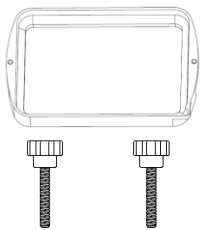

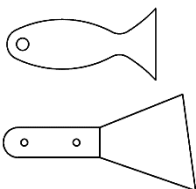
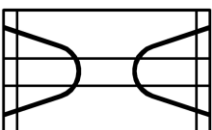

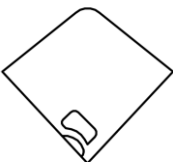






Note:

1.The recommended printing parameters above is for reference only, which is more suitable for Anycubic resin. If you use other resin, please refer to the recommended printing parameters supplied by its manufacturer or print “R_E_R_F” to test.

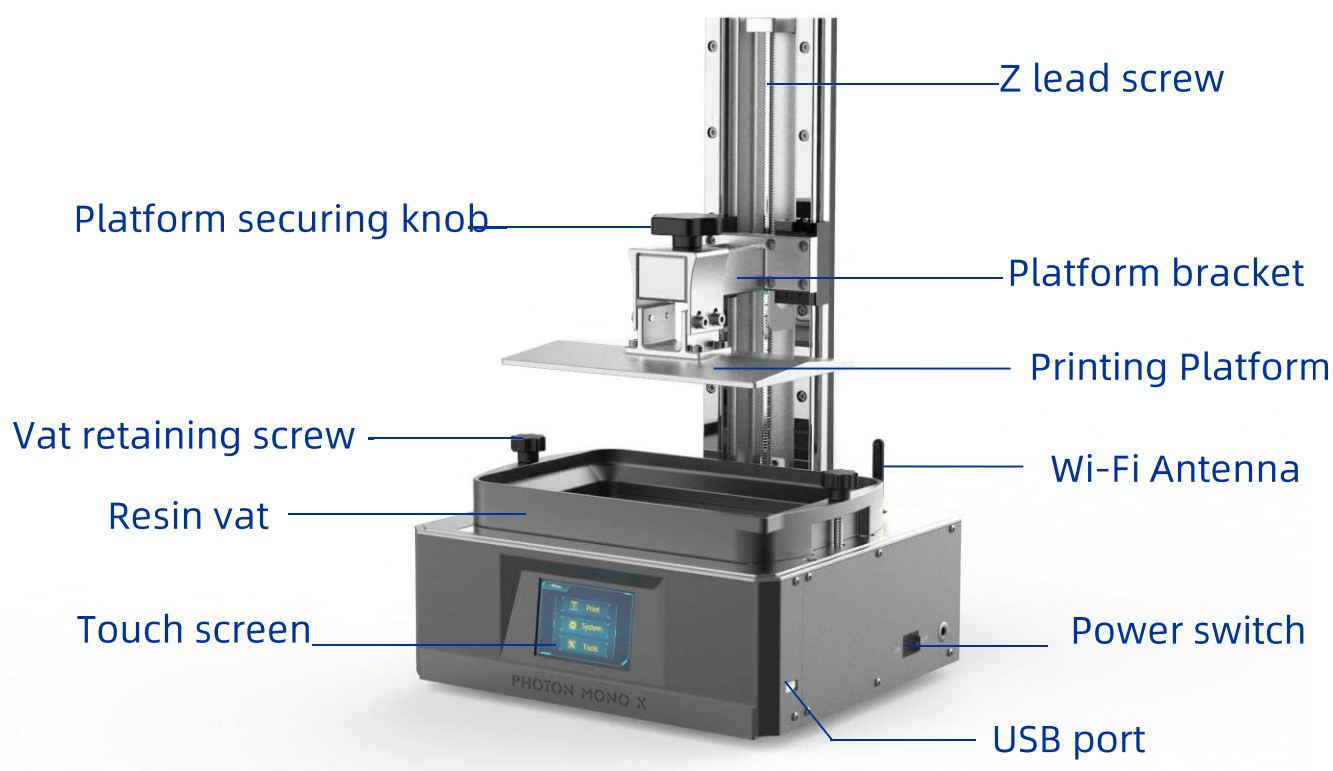
2. The UV power of the machine is high. If there are solid residue in the resin vat or on the printing platform frequently, please decrease the UV power and increase the normal exposure time.



Packing List

| | | | |
|---|---|---|---|
|  |  | |  |
| | Print platform 1PCS | | Resin vat 1PCS |
| |  |  | |
| Photon Mono X | | USB memory 1PCS | Scrapers 2PCS |
|  |  |  |  |
| Mask 1PCS | Gloves 3Pairs | Funnel 5PCS | Assembly Instruction 1PCS |
|  |  |  |  |
| Power adaptor / Power cord 1PCS | After-sale service card 1PCS | Tool kit | WIFI Antenna 1PCS |
|  | | | |
| Leveling paper 1PCS | | | |

Product Overview

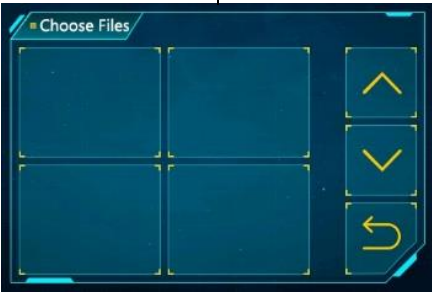


Menu Directory

Home menu



Print



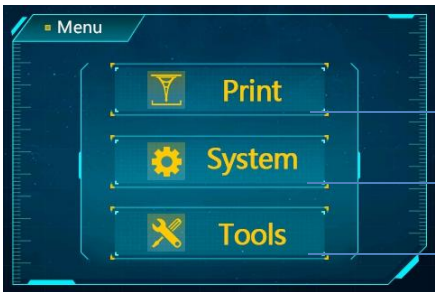
System



Tools



Home menu



Enter the Print Menu

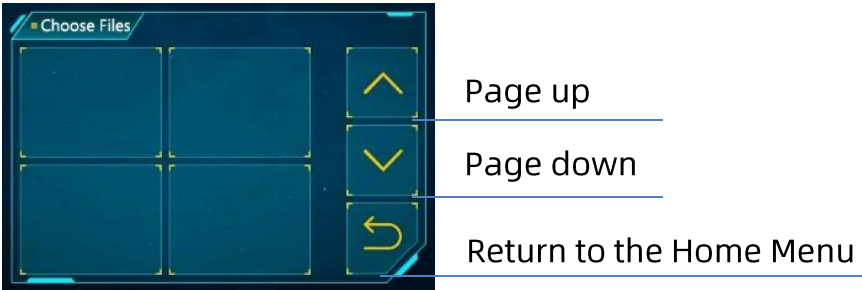
Enter the System Menu

Enter the Tools Menu

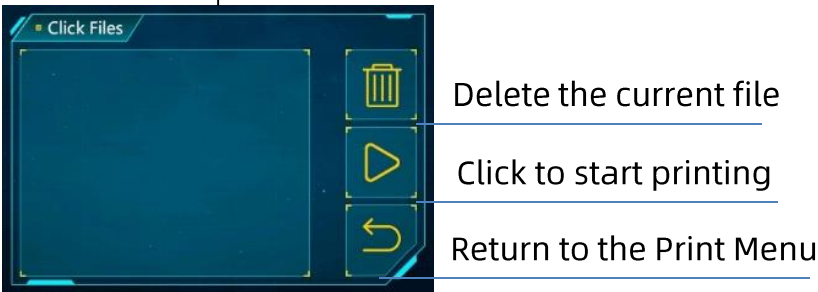
Menu Directory

Print

File List:



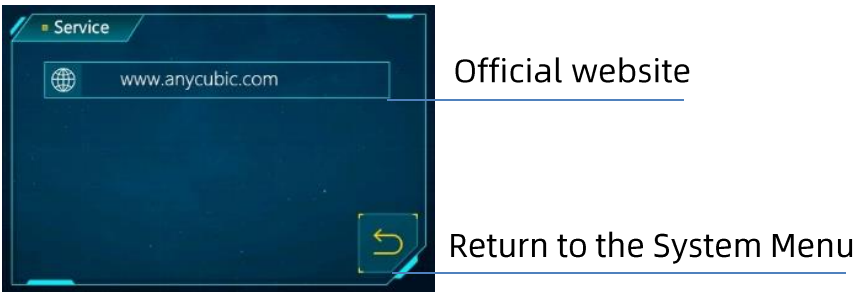
Click Files



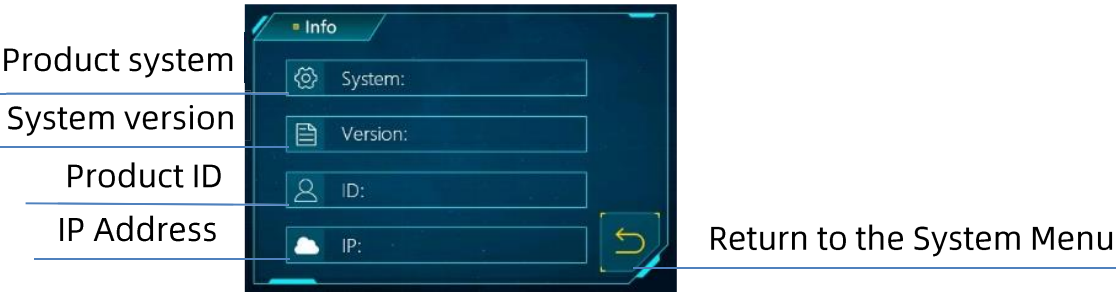
System

Language: Change language(English/Chinese)

Service:




Information:



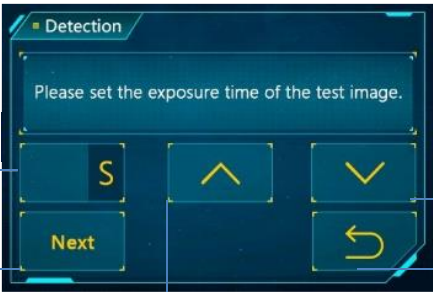
Menu Directory

Tools

Move Z:

| | | |
|---------------------------|---|--------------------------|
| Move the Z axis downwards |  | Move Z by 0.1mm/1mm/10mm |
| Move the Z axis upwards | | Return to Zero |
| Stop moving the Z axis | | Return to the Tools Menu |
| | Reset the zero point | |

Detection:

| | | |
|--------------------------------------|--|--------------------------|
| Click to set the test time |  | Reduce the test time |
| Test LED and LCD for the preset time | | Return to the Tools Menu |
| | Increase the test time | |

Exposure:

| | | |
|--------------------------------|---|------------------------------------|
| Click to set the exposure time |  | Select one of the images to expose |
| Expose for the preset time | | |

Lock icon: Enable/disable the door detection function

Horn icon: Turn on/off the screen sound

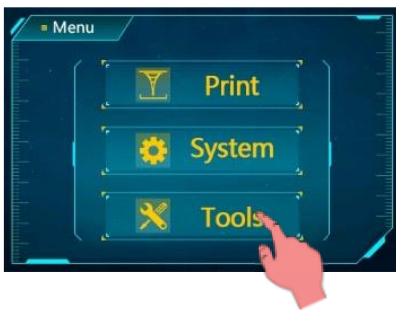
Gear icon: Enter to set the UV power (30% ~ 100%)

Assembly and Leveling Instructions

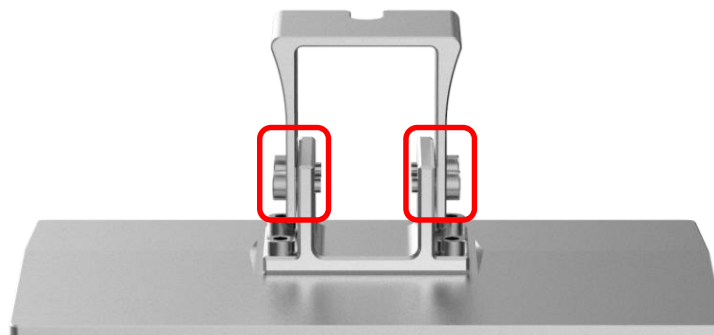
1. Unpack the machine and take out the accessories. Then plug in the power cord and turn on the printer.



2. Click “Tools” → “Move Z” → “10mm” on the touch screen to raise Z axis.

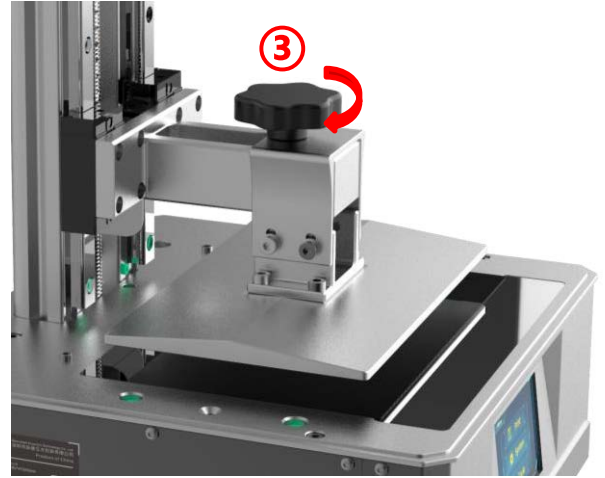
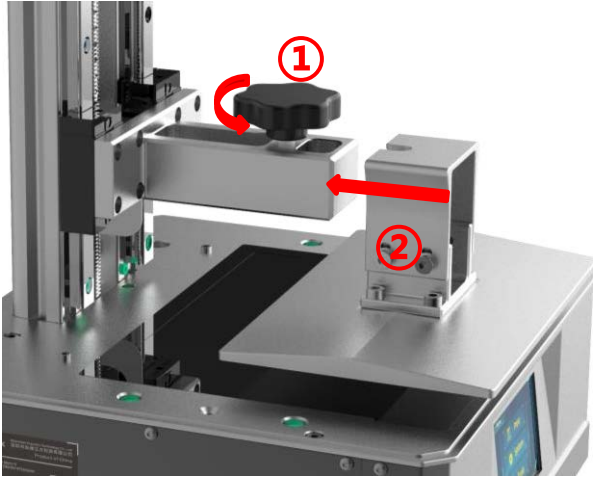



3. Unscrew four screws on the platform.

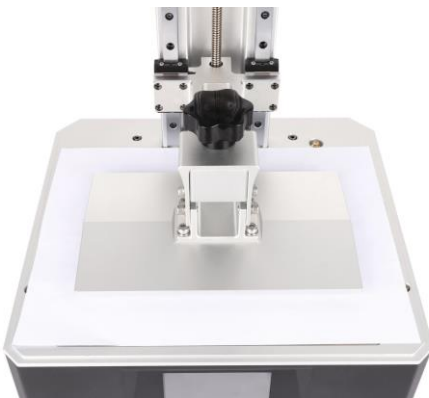


Assembly and Leveling Instructions

4. Install the printing platform.

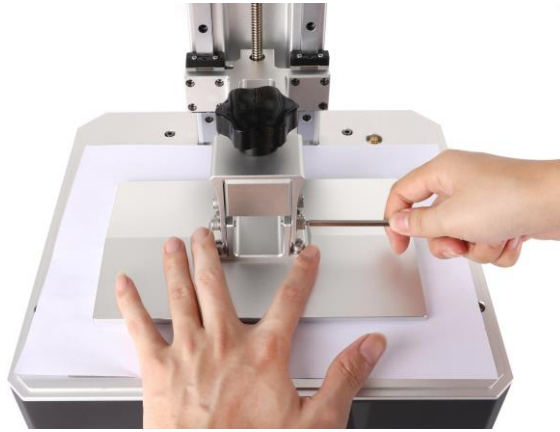


5. Place the leveling paper on the curing screen. Then click the “Tools” → “Move Z” → “” on the color screen. Wait for the Z axis to descent and then it will stop automatically.

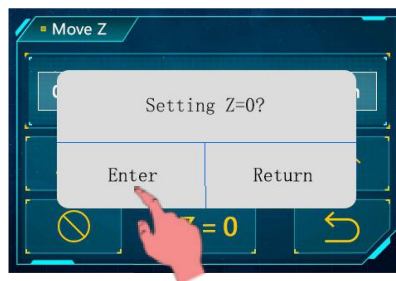


6. Now press on top of the platform gently, to let it fit evenly on the curing screen. Then tighten the four screws on the platform.

Assembly and Leveling Instructions

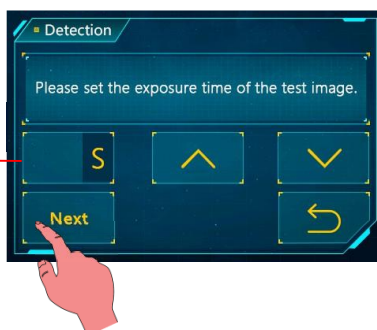


7. Lastly, click “Z=0” on the touch screen, and then click “Enter” on the pop-up window. Till now, the leveling process is finished. Click “Enter” again and pull out A4 paper.



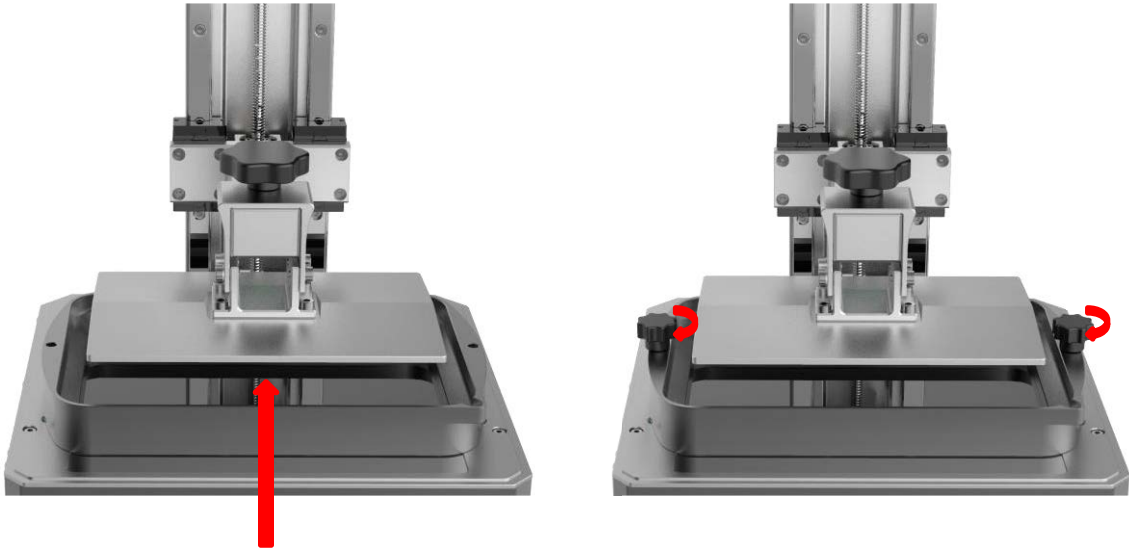
8. Testing UV light: Click “Tools”→ “Detection”, select the testing time, and then click “Next” on the screen. The curing screen should display a complete image as shown below. Otherwise, the UV light is malfunction and please contact the tech support.

Click here to
set the test
time



Assembly and Leveling Instructions

9. Install the resin vat.



10. Install the Wi-Fi antenna.

