

 User Manual

ANYCUBIC PHOTON M3 PLUS

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.

Please visit <https://www.anycubic.com/pages/contact-us> to contact us if you have any question. You can also gain more information such as software, videos, models from the website.



ANYCUBIC support center

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

Model	Anycubic Photon M3 Plus
Operation	5-inch capacitive touch screen
Software	Anycubic Photon workshop
Connectivity	USB memory stick, Anycubic Cloud

Specifications

Technique	LCD Shadow Masking
Light source	UV-LED (wavelength 405nm)
XY Resolution	34.4 μ m 5760*3600 (6K)
Z axis Accuracy	0.01mm
Suggested Layer Thickness	0.01 ~ 0.15mm
Suggested Print Speed	MAX 100mm/h
Rated power	120W

Physical Dimensions

Dimension	360mm (L) *290mm (W) 475*mm (H)
Build volume	197mm (L) *122mm (W) *245mm (H)
Materials	405nm UV-resin
Net weight	~12 kg

Technical Specification

Recommended Printing Parameters


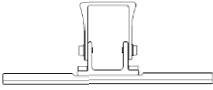
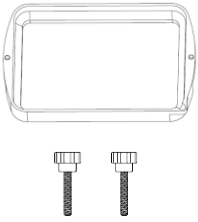

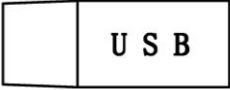
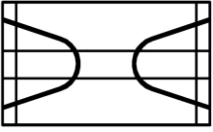

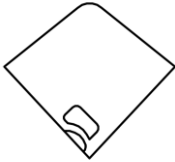
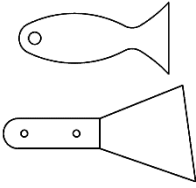


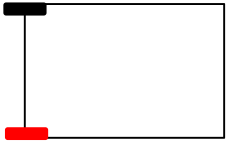


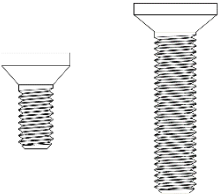

Layer Thickness	0.05 mm
Normal Exposure Time	1.5 s
Off Time	0.5 s
Bottom Exposure Time	23 s
Bottom Layers	6
Z Lift Distance	6 mm
Z Lift Speed	6 mm/s
Z Retract Speed	6 mm/s
Anti-alias	1

Note:

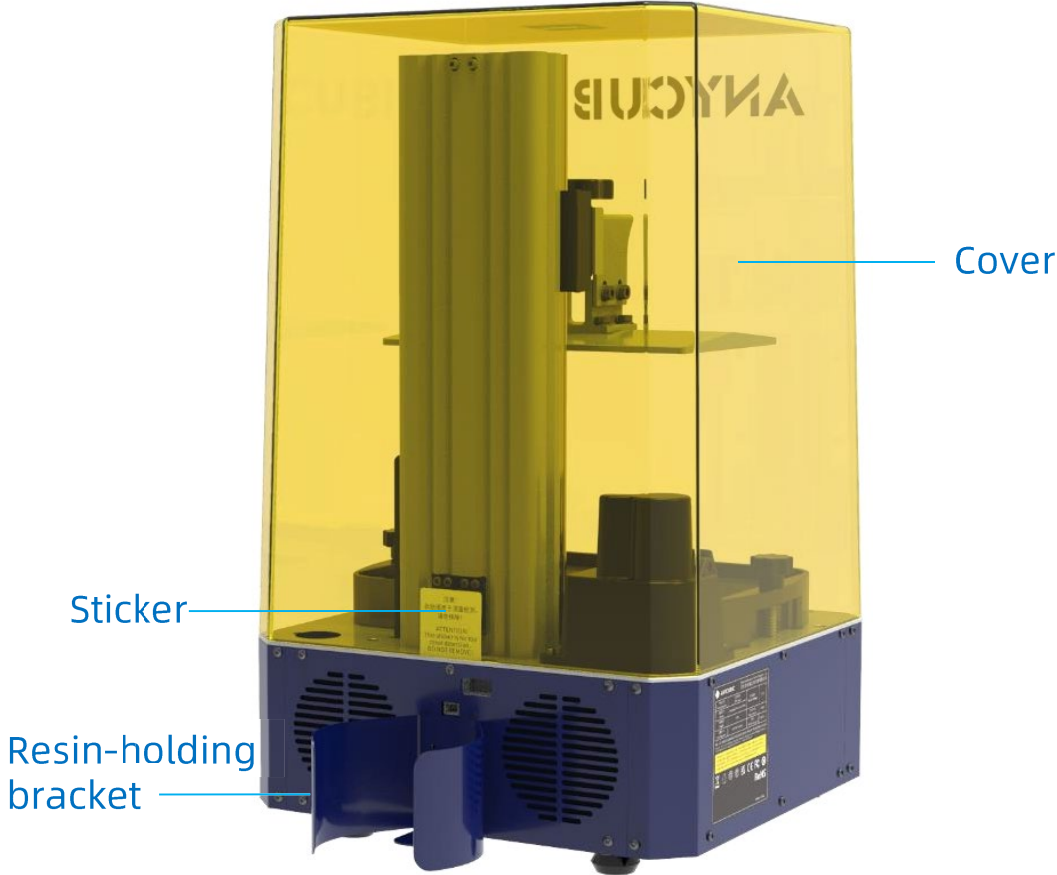
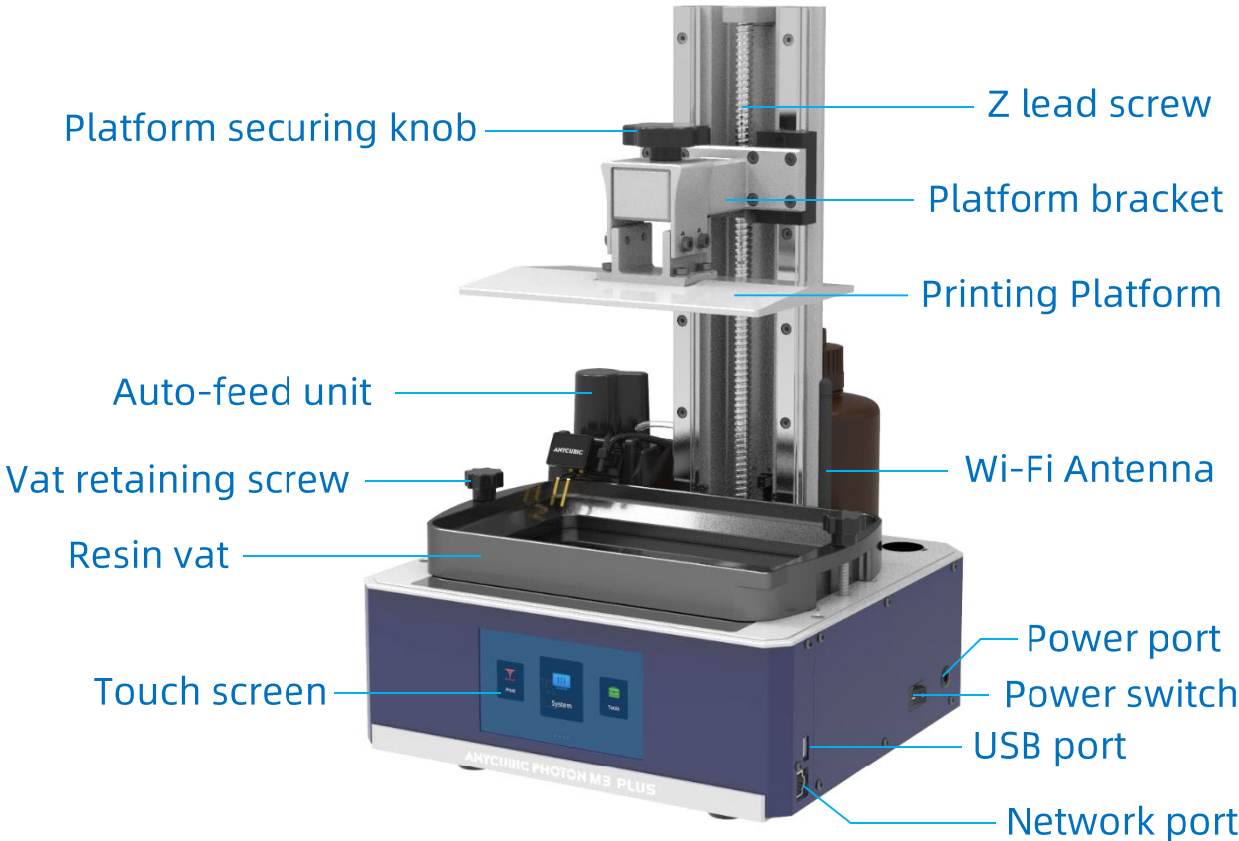
The recommended printing parameters above is for reference only, which is more suitable for Anycubic resin.



Packing List

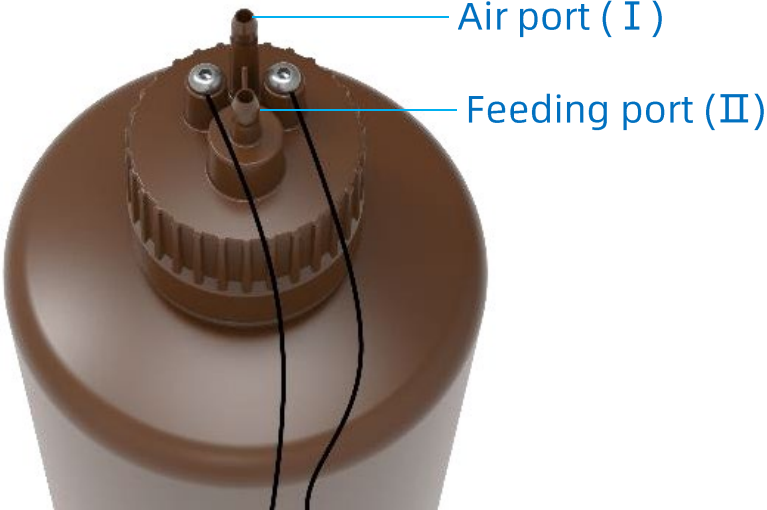
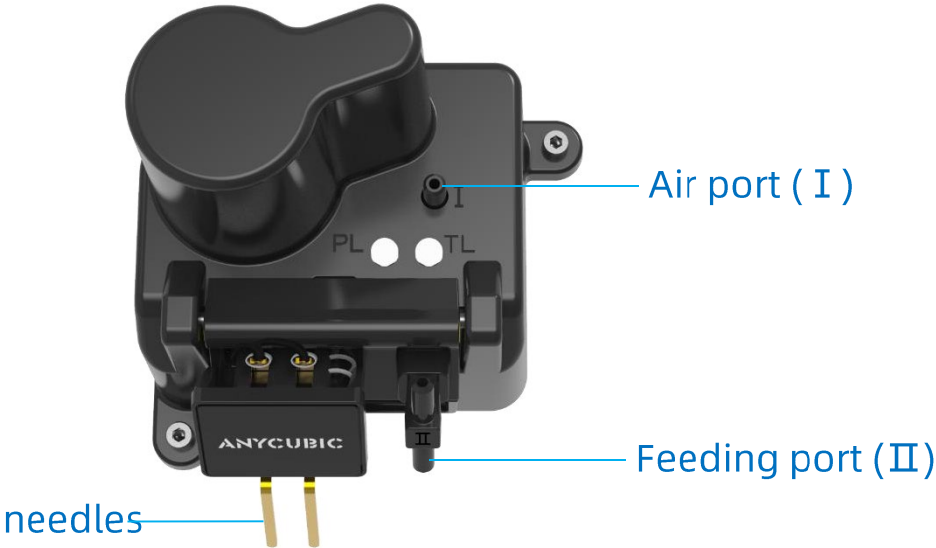
			
		Print platform 1PC	Resin vat 1PC
			
Anycubic Photon M3 Plus		WIFI Antenna 1PC	USB memory 1PC
			
Mask 1PC	Gloves 3Pairs	Funnel 5PCS	Scrapers 2PCS
			
Tool kit	Leveling paper 1PC	Screen protector kit	Assembly Instruction 1PC
			
Power adaptor	M3*5 spare screws M4*12 spare screws	Auto-feed unit (with Screws:M3*6 2PCS,M3*8 2PCS)	

Product Overview



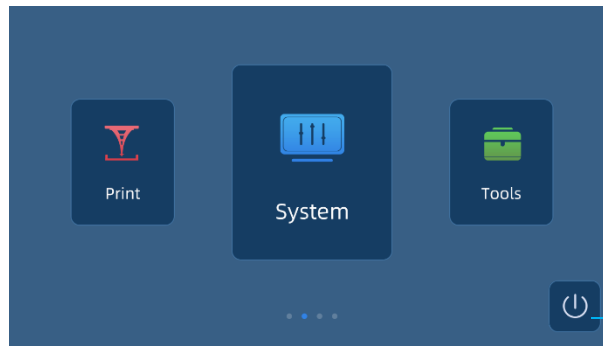
Product Overview

Auto-feed unit



Menu Directory

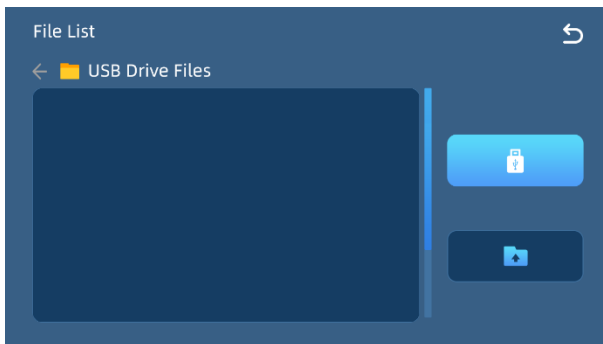
Home menu



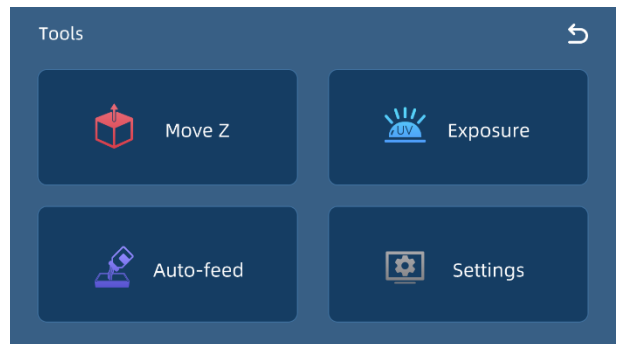
Click to shut down

Click to choose

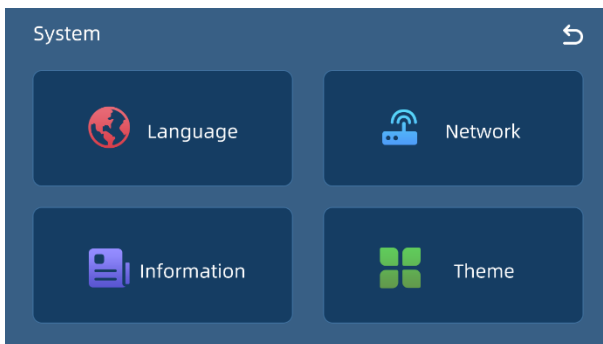
Print



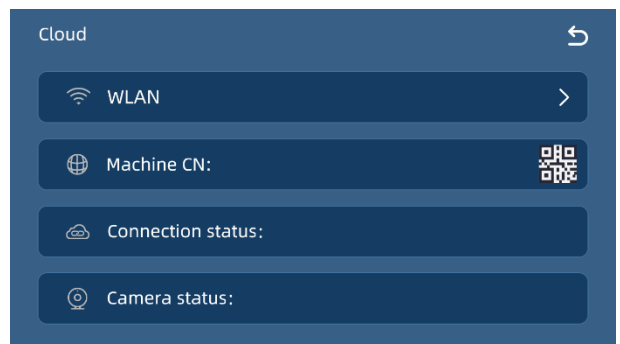
Tools



System



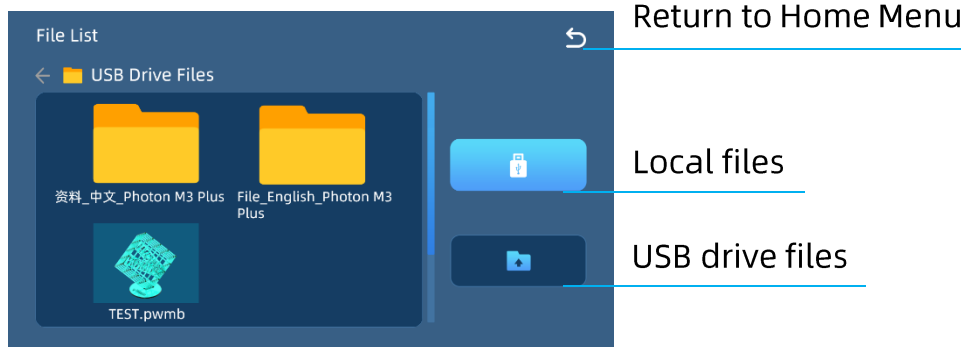
Cloud



Menu Directory

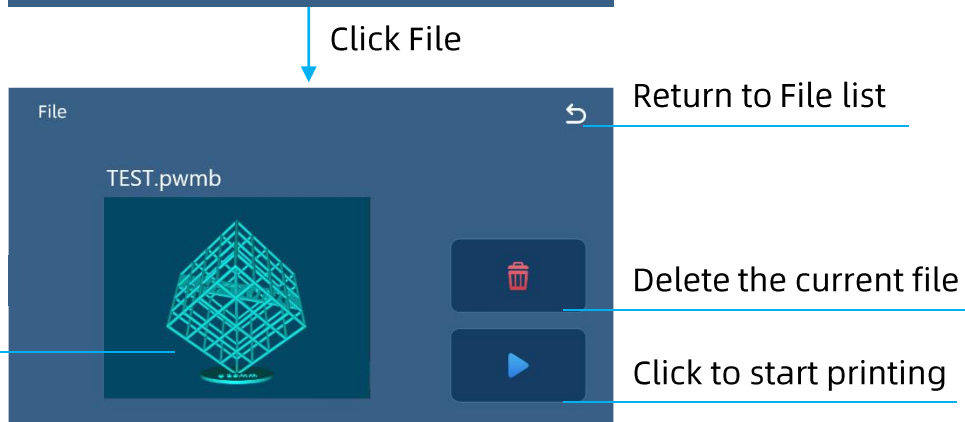
Print

File List:



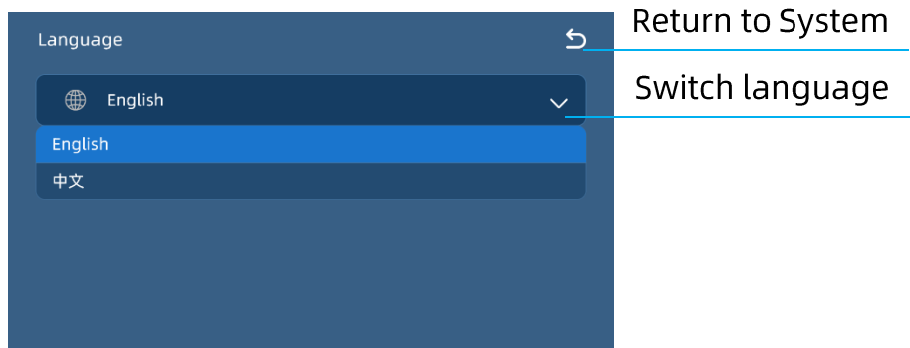
Click Files

Preview & information of the print object

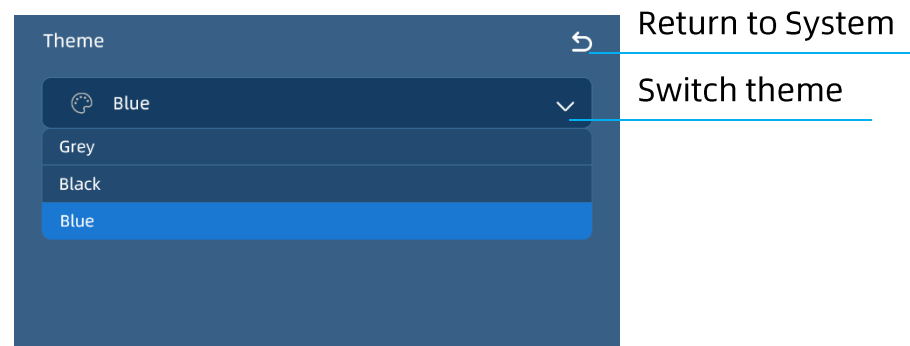


System

Language:



Theme:



Menu Directory

Information:

The screenshot shows the 'Information' menu with a back arrow in the top right. On the left, four callouts point to menu items: 'Machine type' points to 'Machine:', 'System version' points to 'Version information:', 'Serial number' points to 'Version serial number:', and 'Official website' points to 'Service:'. On the right, a 'Version check' button is highlighted with a callout 'Click to check for update'. A 'Return to System' callout points to the back arrow.

Software update:

The screenshot shows the 'Version Detection' menu with a back arrow in the top right. A blue arrow points from the 'Version check' button in the previous menu to this one, with the callout 'Click to check for update'. On the left, two callouts point to menu items: 'The current version' points to 'Current version:' and 'TIPS for update' points to 'TIPS:'. On the right, two callouts point to buttons: 'Update by USB files' points to the 'upgrade' button next to 'Local upgrade:' and 'Update by OTA files' points to the 'upgrade' button next to 'OTA upgrade:'. A 'Return to Information' callout points to the back arrow.

Network:

The screenshot shows the 'Network' menu with a back arrow in the top right. On the left, a callout 'Wired/wireless connection' points to the entire menu. On the right, four callouts point to menu items: 'Return to System' points to the back arrow, 'IP Address' points to 'IP:', 'MAC Address' points to 'MAC:', and 'SSID' points to 'SSID:'. The 'Connection mode:' item is also visible but not pointed to.

Menu Directory

Tools

Move Z:

The screenshot shows the 'Move Z' menu with the following callouts:

- Return to Tools (top right)
- Move Z by 0.1mm/1mm/10mm (top left)
- Move Z axis upwards (top right, arrow up)
- Move Z axis downwards (middle right, arrow down)
- Stop moving Z axis (middle left, red stop icon)
- Reset the zero point (bottom center, Z=0)
- Return to Zero (bottom right, house icon)

Auto-feed:

The screenshot shows the 'Auto-feed' menu with the following callouts:

- Return to Tools (top right)
- Show whether the resin in bottle is enough (middle left, resin icon)
- Turn on/off feed-in (top right, toggle switch)
- Set feeding speed (middle right, slider)

Exposure:

The screenshot shows the 'Exposure' menu with the following callouts:

- Return to Tools (top right)
- Select one image to expose (middle left, image grid)
- Set exposure time (top right, '5' input field)
- Click to expose (bottom right, 'Next' button)

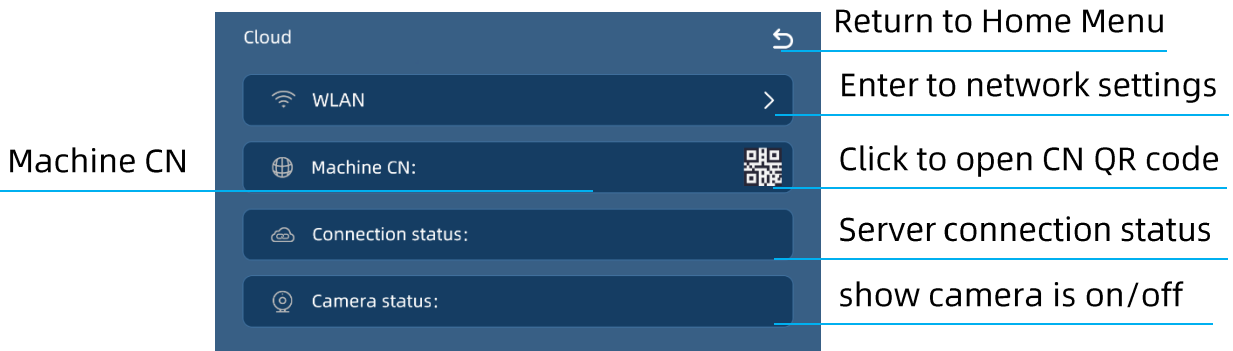
Menu Directory

Machine settings:

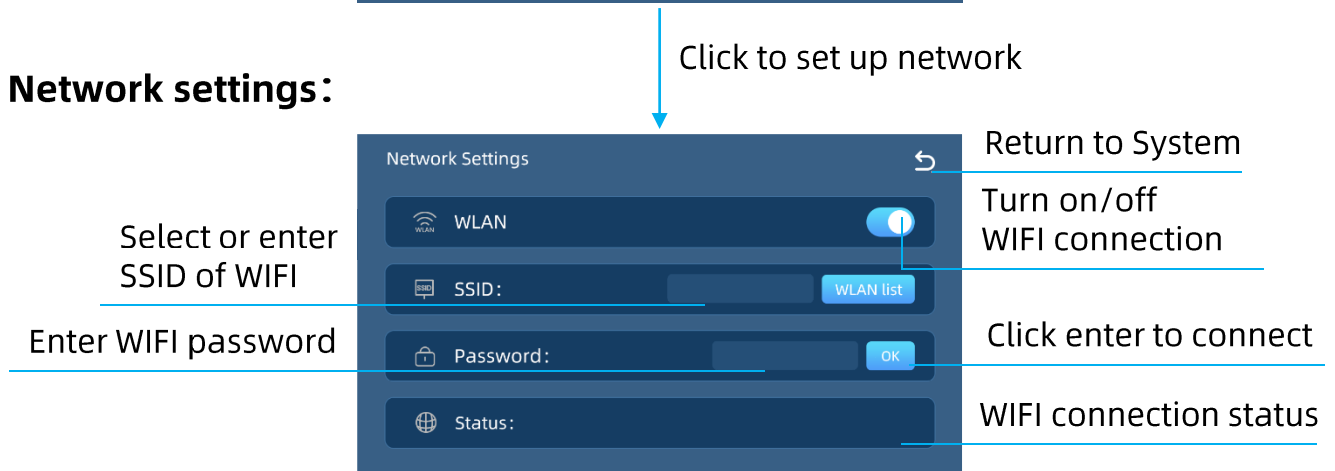


Cloud

cloud:



Network settings:

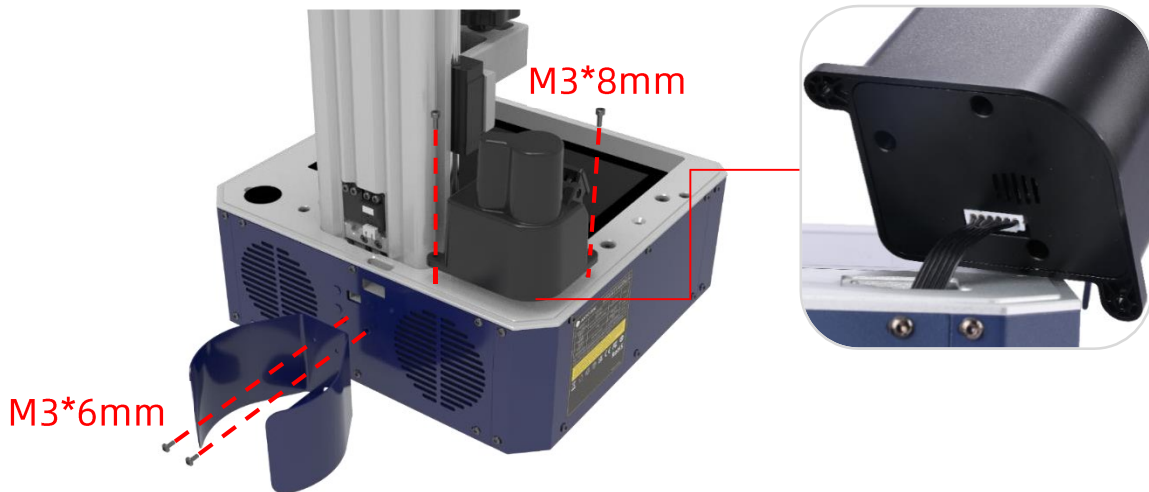


Assembly and Leveling Instructions

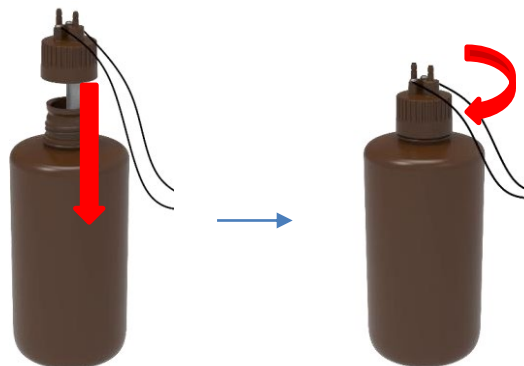
1. Unpack the machine and take out the accessories. Skip to Step 7 if you do not want to install auto-feed unit first.
2. Turn the machine back. Remove the black square cover upon the base and take out the wire below.



3. Connect the wire to resin sensor, then install the sensor and resin-holding bracket.

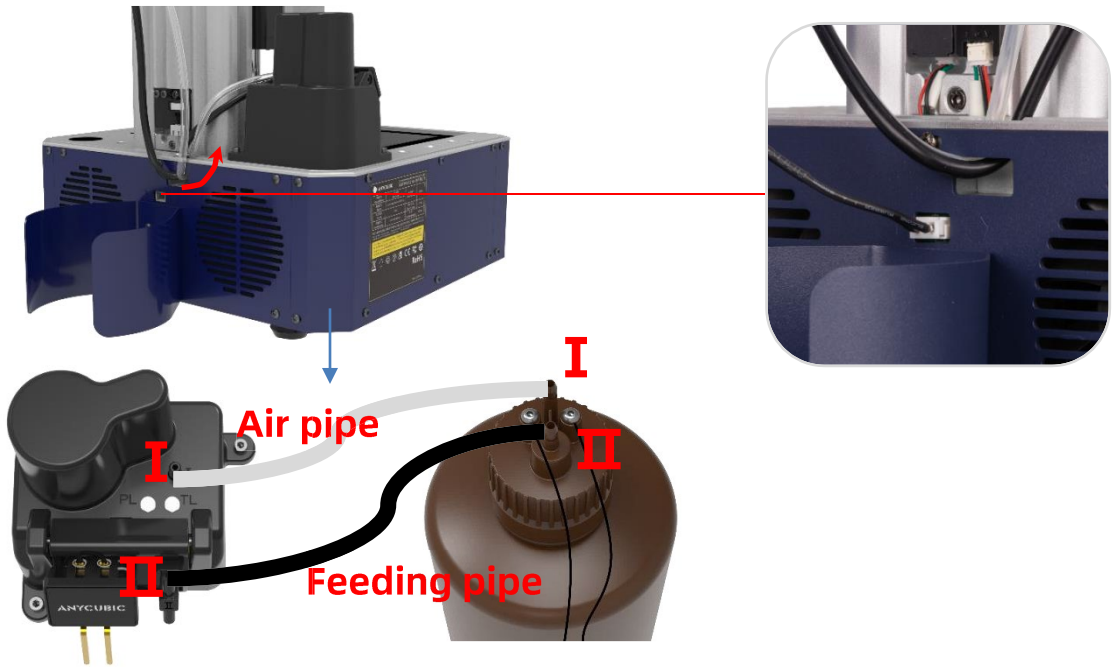


4. Insert the cap part into **Anycubic 1kg resin bottle** and tighten it.

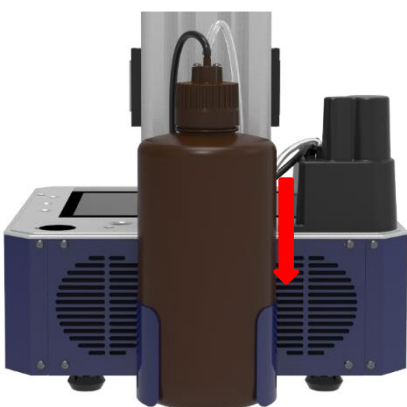


Assembly and Leveling Instructions

5. Pass two pipes through the limit hole on the back of the machine from the bottom up. **Connect ports II with feeding pipe (black) and connect ports I with air pipe (transparent)** . Please completely follow this way of connection to avoid the damage of auto-feed unit. Then, connect the cap part wire to machine.



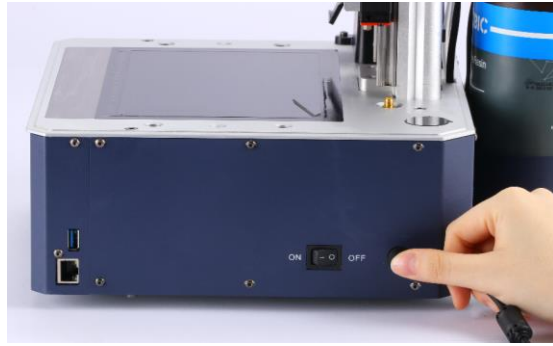
6. Place resin bottle on the bracket.



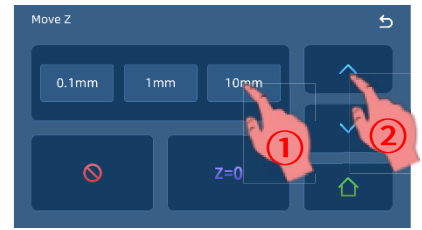
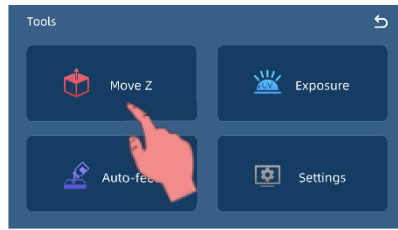
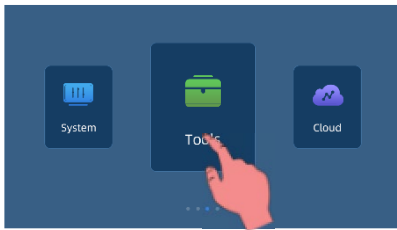
TIPS: When you change resin, it is recommended to tighten the cap through rotating bottle to avoid blockage caused by twisting pipes.

7. Turn the machine back to the front. Then plug in the power cord and turn on the printer.

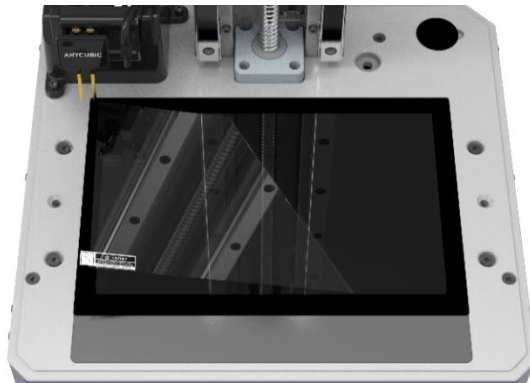
Assembly and Leveling Instructions



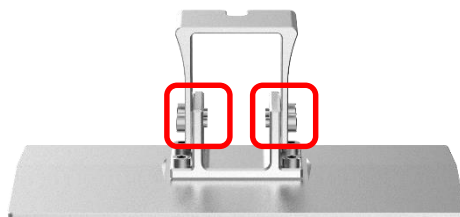
8. Rise the Z axis to a certain height to ensure that the curing screen will not be scratched when the printing platform is installed.



9. Tear off the protective film before leveling and printing.

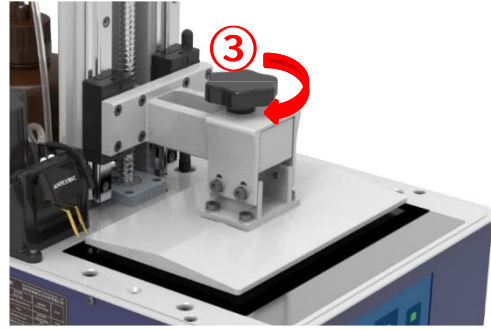
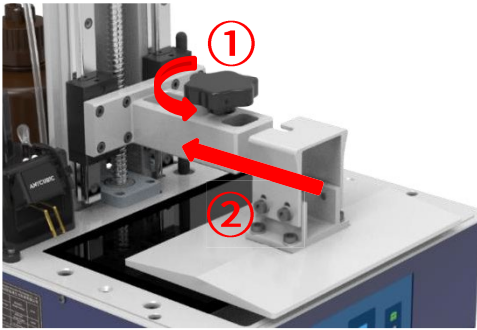



10. Loosen the four screws on the printing platform.

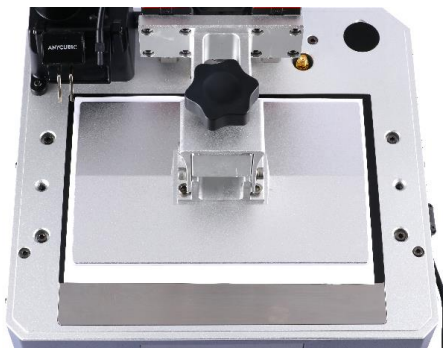


Assembly and Leveling Instructions

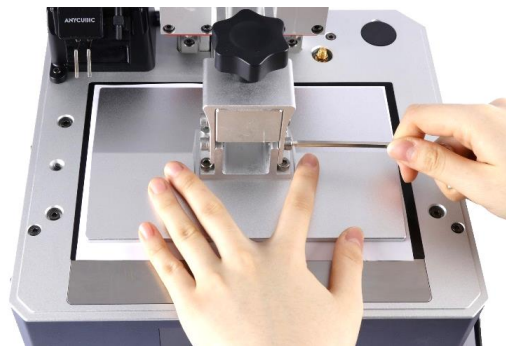
11. Install and secure the printing platform.



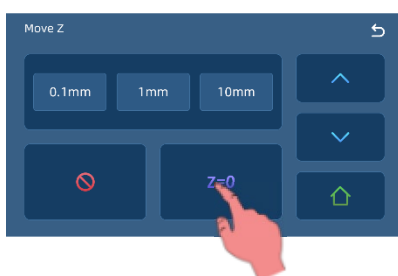
12. Place the leveling paper on the curing screen. Then click  on the touch screen. Wait for descent of Z axis.



13. Press on top of the platform gently, and then tighten the four screws to secure the platform.

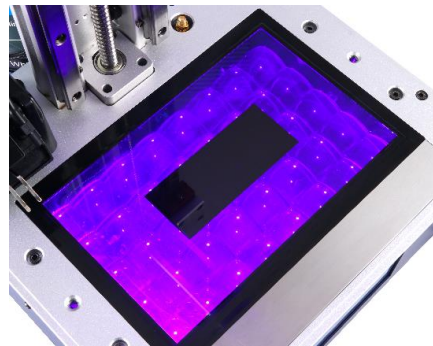
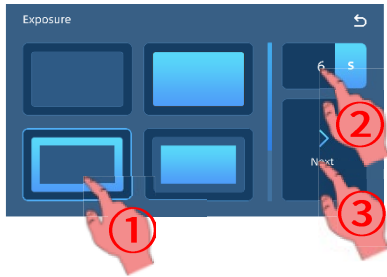


14. Lastly, click "Z=0" and confirm to save the zero position. Click "Enter" and Z axis will automatically lift up. Then, take out the paper.

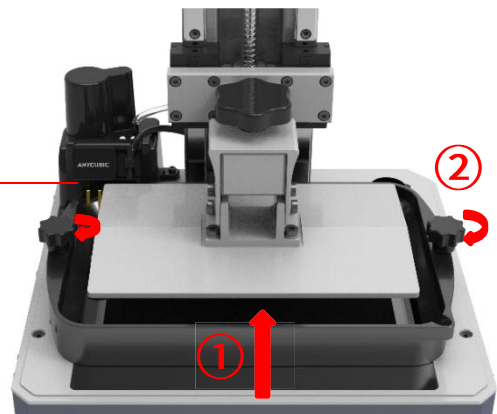


Assembly and Leveling Instructions

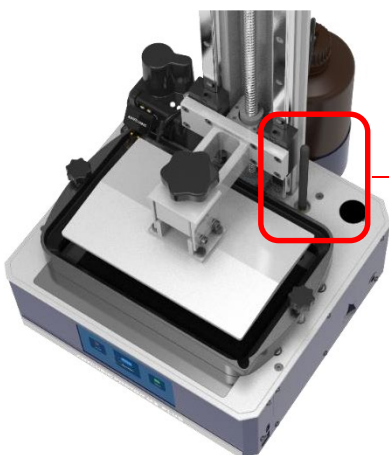
15. Raise printing platform until the curing screen can be observed completely. Return to Tools menu and click "Exposure". Select an image, set the test time and then click "Next". The corresponding image should be displayed completely on curing screen.



16. Install resin vat with both needles being set in it.



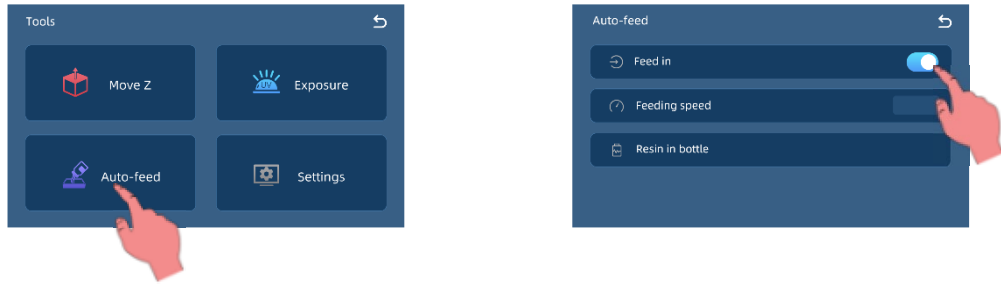
17. Install WIFI antenna.



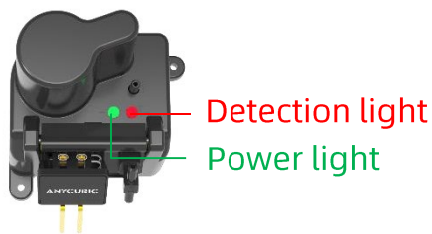
Auto-feed

1. Instructions

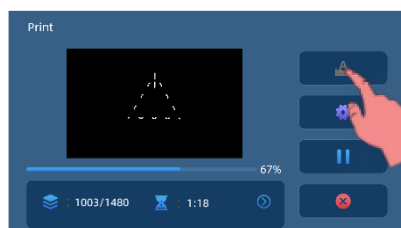
Ensure the auto-feed unit has been installed and the resin in bottle is enough to print. Click “Tools” → “Auto-feed” → “Feed in”. It will feed in automatically if resin in the vat is sufficient during printing. Click “feeding speed” to set the speed.



- Auto-feed only works when machine is printing.
- The unit feeds every five minutes normally.
- Green light indicates that the unit has been powered.
- Red light indicates that resin is not detected by needles. When needles detects resin, the light goes off.



If the insufficiency of the resin in bottle is detected when it is printing, the machine will beep to warn and disable auto-feed function. Please add or change resin first and click auto-feed button to enable it if necessary.



Click auto-feed button to enable the function after add or change resin

Auto-feed

Notice:

1. If you use non-Anycubic resin, it is suggested to check whether red light goes out normally when resin reaches both needles before printing. If not, the resin cannot be automatically fed.
2. To save resin, pour the remaining resin that is out of the reach of pipes to resin vat.
3. **DO NOT vigorously shake or turn over the resin bottle when cap part is installed. If the inside of cap is stained by resin, please immediately clean it to avoid malfunction or damage of auto-feed unit.**

2. Troubleshooting

Issues	Troubleshooting		Solution
Do not feed in during printing	Red light is off	The resin in vat reaches both needles	Wait until the resin is insufficient.
		The resin in vat does not reach both needles	The power light(green) is off, reconnect the wire under detection unit.
			Two needles touch each other. Please contact the tech support.
		Resin abnormally gets into the air pipe to cause malfunction of the unit. A replacement is needed.	

Auto-feed

Issues	Troubleshooting		Solution
Do not feed in during printing	Red light is on	Waiting status	It feeds every five minutes normally. Wait for the next feeding.
		Feeding status	The wrong connection of air pipe and feeding pipe cause malfunction of auto-feed unit. A replacement is needed.
The machine shows resin in bottle is insufficient and disable auto-feed function	Resin in bottle is insufficient		Add resin to bottle
	Resin in bottle is sufficient but machine shows its status as No Resin	The two screws on the cap is loosened	Tighten the screws
		The wire connecting cap and machine is disconnected	Connect the wire to machine
Nothing wrong with screws and wire	The resin cannot be used for auto-feed		

Auto-feed

Issues	Troubleshooting	Solution
Consistent feeding cause overflow of resin	Red light does not go off when resin reaches both needles	The resin cannot be used for auto-feed unit
	The lowest points of needles is rose	Check whether you completely follow the assembly instructions
		Two needles are distorted. Please contact the tech support.

***Please contact the tech support if the troubleshooting above cannot solve your problem.**

First Print Instructions

1. Print

*Please check FEP film carefully before and after every printing. If the FEP film is broken, replace it immediately to avoid further damage to machine.

Wear masks and gloves (to avoid direct skin contact with resin), and slowly pour the resin into the vat. The resin cannot exceed the vat's maximum scale.

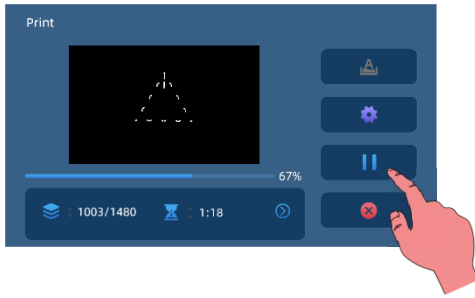
Then, put on the cover and the side with sticker needs to face backward. Insert the USB memory into the USB port, print the test file in it. Or connect the machine to Anycubic Cloud and remotely control the printing.

The printing time on the screen is for reference only, we make no guarantee that it is the actual printing time.

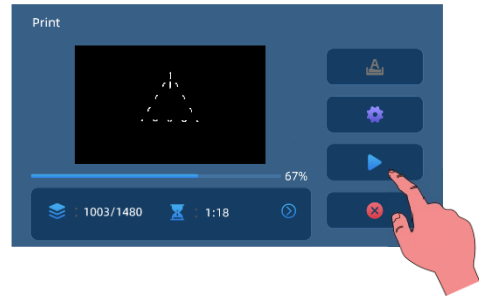


If it is necessary, click "Pause" to pause the printing and wait for platform rising automatically. Then click "Start" to resume printing.

First Print Instructions



click to pause

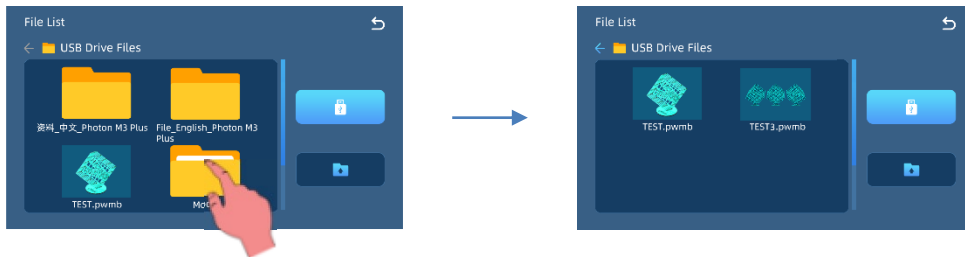


click to start

2. File list

File list is consist of USB driver file list and local file list. The print files sent remotely from Anycubic Cloud will be saved to local file list.

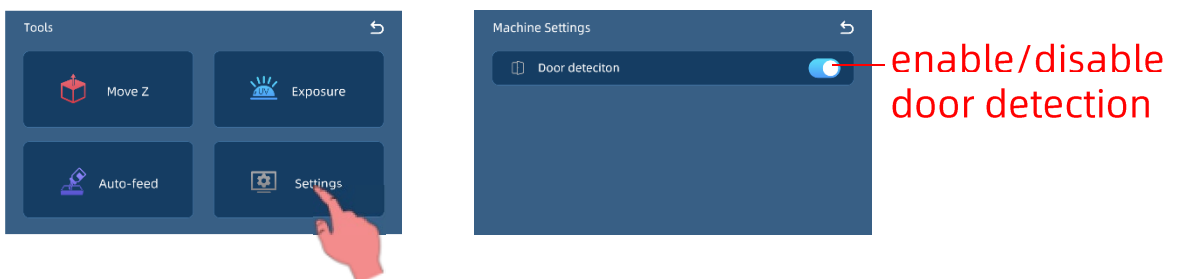
The first two level directory can be checked. For example, insert USB drive and then select USB drive file to open its first level directory. And click the file icon to open the second level directory.



3. Machine settings

Click Settings in Tools interface to enable/disable door detection function.

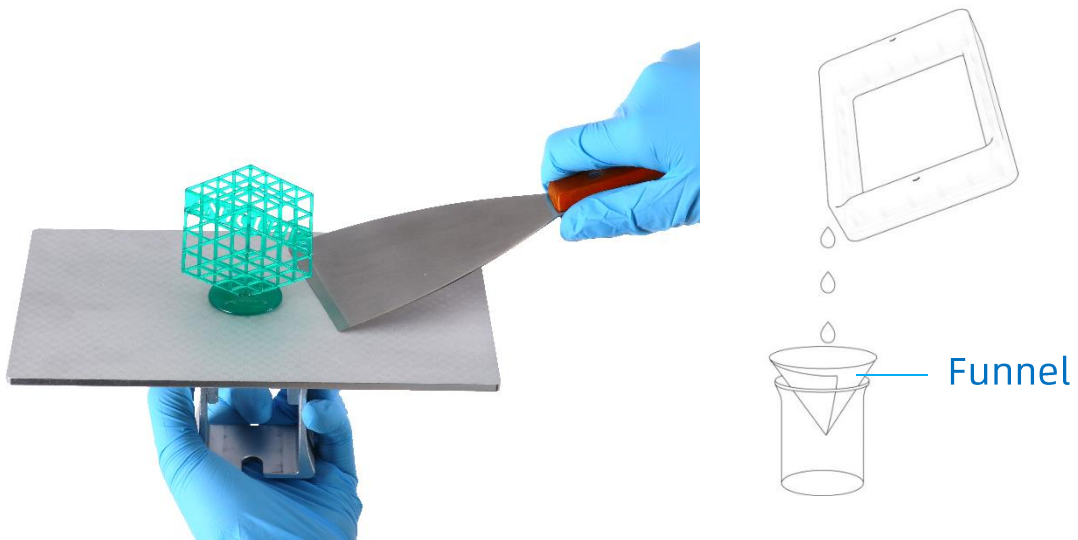
Door detection function is disabled by default. If this function is enabled, the printer can detect whether the cover is on or not. Printing will pause when the cover is removed, and will continue when the cover is put back.



First Print Instructions

4. Handling models and residues

After printing, wait until the resin stop dropping from the platform and then unscrew and remove the platform. The model can be removed by scraper carefully. The removed model should be washed with ethanol 95vol% concentration. The printed model may need post curing to achieve better hardness by direct **sunlight** or UV-curing box.



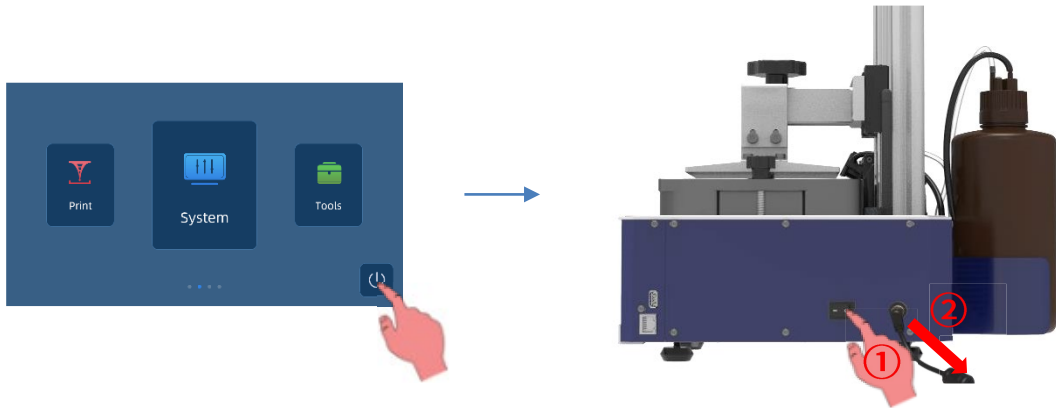
【IMPORTANT】 Inevitably, in case of incomplete curing or failed prints, there might be some cured resin left in the vat. It is suggested to filter the resin by a funnel and then store the liquid in a sealed container. The residues left on the platform or in the vat can be wiped off with paper towel.

Before each prints, please ensure there is no solid residues in the vat or on the platform, otherwise the FEP film may be crushed and broken during printing.

First Print Instructions

5. Power off

If you want to power off the 3D printer completely after printing, please click the icon in home menu to shut down, then turn off the power switch and disconnect the power cord. Otherwise, it may cause data loss and malfunction.



Slicing Software Overview

3D printer reads sliced file and prints models. It is necessary to convert 3D files (stl./obj.) into sliced files for machine to recognize. Software that realize the process is called slicing software, for example, Anycubic Photon Workshop.

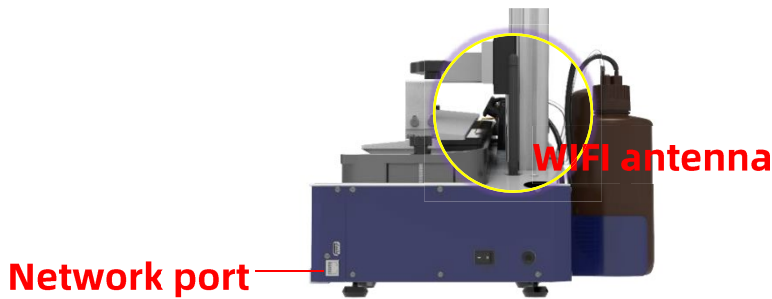
Anycubic Photon Workshop can be used to export sliced file. You should select **Anycubic Photon M3 Plus** as machine type first, then manipulate the model and set the parameters. Lastly, export the sliced file (.pwmb).

The instruction of Anycubic Photon Workshop has been saved in the USB memory, it is recommended that read it carefully if it is the first time for you to use Anycubic Photon Workshop.

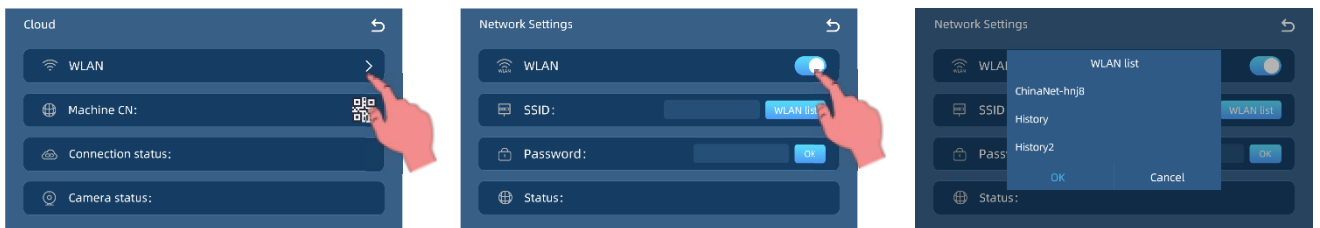
Anycubic Cloud

1. Connect Anycubic Photon M3 Plus to Anycubic Cloud to upload and manage printing over WIFI and Ethernet.

- Connect with Ethernet: Plug one end of the network cable into the network port.



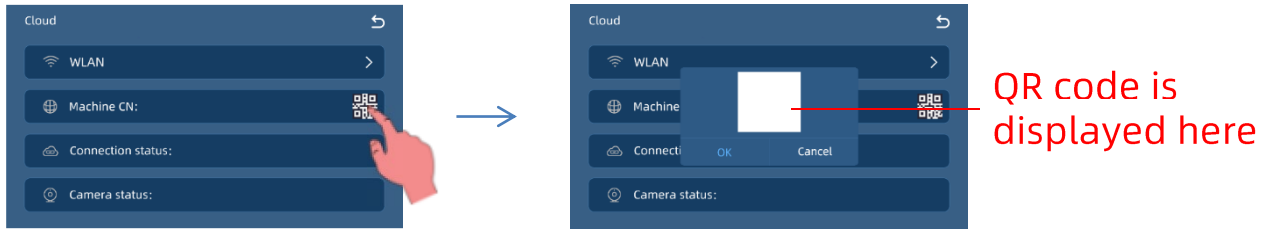
- Connect with WIFI: Install the antenna first. Click “Cloud”→“WLAN”, turn on to search for available network and select one. Then, enter the password and click OK to connect.



2. Visit <https://cloud.anycubic.com> on PC to access Anycubic Cloud. To download the application, search “Anycubic Cloud” in App Store or Google Play. Then, sign up and log in.

3. Open Anycubic Cloud - workbench - 3D printers, click “Add Printers”. Open Cloud interface on the printer, check Machine CN and enter it to “Add Printers” interface in Anycubic Cloud; or click “ ” icon and then scan QR code with your smart phone. Lastly, confirm to add printers.

Anycubic Cloud



4. When printer is added successfully, you can control printing remotely. If necessary, you can install an extra camera unit to monitor printing in real time.

FAQ and Machine Maintenance

1. FAQ

(1) Model do not stick to platform

- Bottom exposure time is insufficient, increase the exposure time.
- Contact area between the model and platform is small, please add raft.
- Bad leveling.

(2) Layer separation or splitting

- The machine is not stable during printing.
- FEP film in the vat is not tight enough or it need a change for new one.
- The printing platform or resin vat is not tightened.
- The lift speed is too fast.
- The printing object is hollowed without punching.

(3) Layer shift

- Add supports.
- Reduce the lift speed.

(4) Floccules left in resin vat

- The exposure time is too long. Reduce the normal exposure time and bottom exposure time.

2. Machine maintenance



- (1) If Z axis make noisy sound, please apply lubricant to Z lead screw.

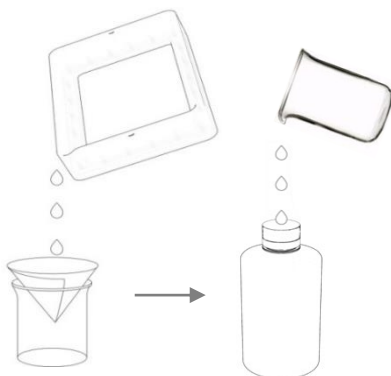
FAQ and Machine Maintenance



(2) Clean off the residues cured on FEP film when the printing fail: Set full-screen exposure for 20s and then remove the cured resin sheet to protect the film. Do not use sharp objects to scrape off the residues on the FEP film.



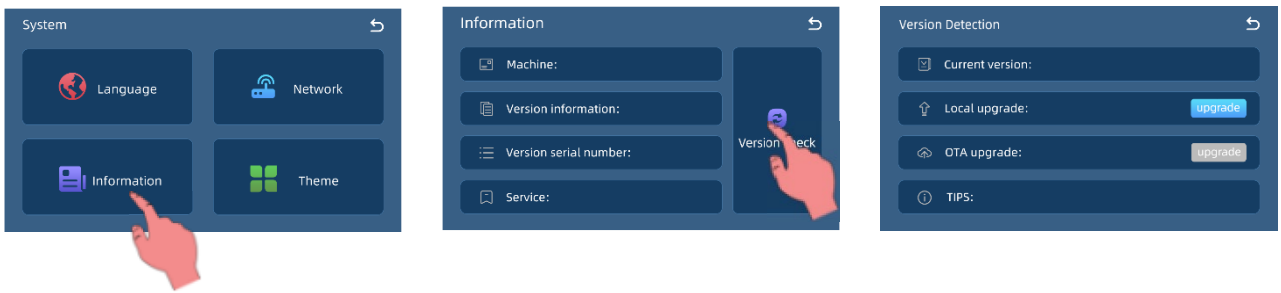
(3) Be careful when remove the platform, do not let it fall onto the curing screen.



(4) Do not left the resin in the vat for over two days if not using it. Please filter and store the resin properly.

FAQ and Machine Maintenance

(5) Firmware update: Click “System”→“Information” →“Version check” to check whether the current firmware can be updated. To update firmware, you can copy latest firmware file to USB driver and then click Local upgrade button. In addition, update the firmware by OTA upgrade.



(6) After printing, please clean up the platform (**wipe with paper towels or wash with alcohol**), and ensure no residue left before next print (**filter the residue with funnel**).

(7) If the outside of printer is stained with resin, use alcohol to clean.

(8) To switch the resin colors, please clean the original resin vat first.

Thank you for purchasing **ANYCUBIC** products! Under normal usage and service, the products have a warranty period up to one year. Please visit **ANYCUBIC** support center(support.anycubic.com/en) to report any issue with **ANYCUBIC** products. Our professional after-sale service team would respond within 24 hours and solve the issues.