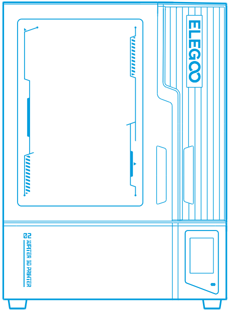
150*150mm
骑马钉（不锈钢）

ELEGOO

Jupiter 2
3D Printer



User Manual

Thank you for purchasing ELEGOO brand products.

Upon receiving the product, please confirm that the device is intact and a
encounter any issues during installation, operation, or maintenance, plea
team for professional support through the official channels below:

1. Visit our dedicated support page: https://www.elegoo.com/pages/con
copying the link and opening it in your browser.)

2. Scan the QR code below for personalized, one-on-one assistance.

(Note: To ensure optimal performance, each ELEGOO product undergoes
shipping. You may notice minor surface scratches upon delivery; this is n
functionality. Please use your product with confidence.)

V6

ll accessories are included. If you
se contact the ELEGOO after-sales

tact-support.(We recommend

rigorous printing tests before
ormal and does not affect

ELEGOO

Notice

- Please keep the 3D printer and its accessories out of the reach of children.
- Please fill the resin tank to just below the MAX line. Do not exceed the MAX line.
- Please place the printer in a dry environment and protect it from rain and moisture.
- If you run into an emergency during use, please turn off the power supply of the 3D printer first.
- Please use the printer indoors and avoid direct sunlight and a dusty environment.
- Please keep the original packaging box for 30 days for return/exchange (only ELEGOO original packaging boxes are accepted).
- If the printing fails, you need to clean the excess cured resin in the resin tank, otherwise, it may cause damage to your printer.
- When operating the 3D printer, please wear a mask and gloves to avoid direct skin contact with the photopolymer resin.
- If the release film in the resin tank is whitened, scratched, or has no elasticity, the printing failure rate is high, please replace the release film in time.
- Please use 95% (or higher) ethyl alcohol or isopropyl alcohol to wash your model unless you are using water washable resin.
- Please note that the Mylar tape surrounding the screen is not completely airtight. In case of resin drips during use, it is crucial to promptly clean them to prevent resin infiltration and potential screen damage.
- To maintain the cleanliness, durability, and protective performance of the LCD screen, it is necessary to timely replace parts under the following conditions: aged or damaged tape, corrosive damage, and damaged release film.
- If you have any problems with the printer, please contact us at 3dp@elegoo.com. Please do not disassemble or modify ELEGOO 3D printers by yourself, otherwise, the warranty will expire, and damage caused by personal operating errors need to pay for repairs.

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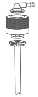
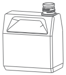
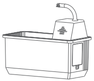
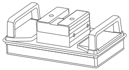
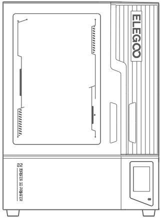
Packing List


Bottle Cap Module


Resin Bottle


Auto Resin Feeding Cartridge


Build Plate



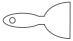
Jupiter 2 3D Printer

USB Flash Drive

Mask

Funnel

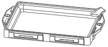
Backup Screws


Scraper

Auto Resin Feeding & Recycling Accessory Box

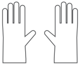
User Manual

Power Cord



Resin Tank

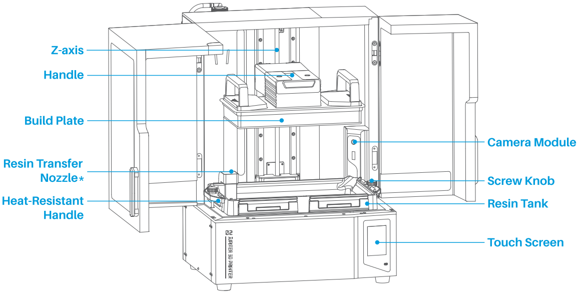
Drip Tray



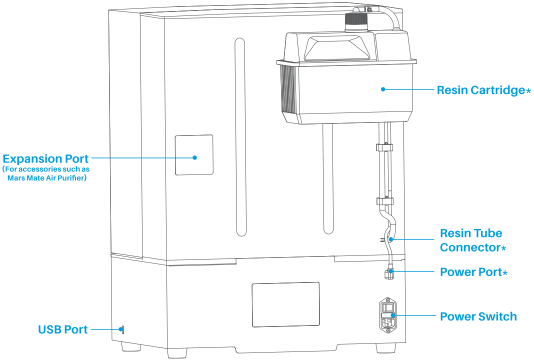
Gloves

Tool Kit

Printer Introduction



*Part of the Automatic Resin Feeding and Recycling System.



Printing Parameter

- System: EL3D-4.0
- Operation: 4.0-inch Capacitive Touch Screen
- Slicer Software: ELEGOO SatelLite
- Connectivity: USB Interface & WiFi
- Camera: 1,280 × 720 Resolution

Hardware Specification

- Printer Dimensions: 465 mm (L) × 508.1 m
- Build Volume: 302.4 mm (L) × 161.98 mm
- Package Size: 710 mm (L) × 575 mm (W) ×
- Gross Weight: 35.8 kg
- Net Weight: 28.9 kg

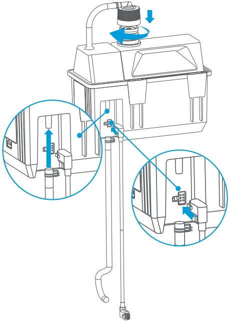
Printing Specification

- Technology: MSLA Stereolithography
- Light Source: COB Light Source + Fresnel Collimating Lens (wavelength 405nm)
- XY Resolution: 20 × 26μm (15,120 × 6,230)
- Z-axis Accuracy: 0.02 mm
- Layer Thickness: 0.01 - 0.2 mm
- Printing Speed (MAX) : 90mm/h
- Power Requirements: 100-120/200-240V AC 5.5A 50/60Hz

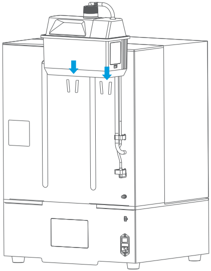
m (W) × 648.1 mm (H)
(W) × 300 mm (H)
490 mm (H)

1. Automatic Resin Feeding and Recycling Module

Unpack the machine and take out the resin cartridge and accessories. Connect the resin tube and power cord to the module (see Picture 1). Align the module with the two mounting slots at the back of the machine and slide it down until it clicks into place (see Picture 2). (Note: If you prefer to place the resin cartridge separately on a tabletop, skip this step.)



(Picture1)

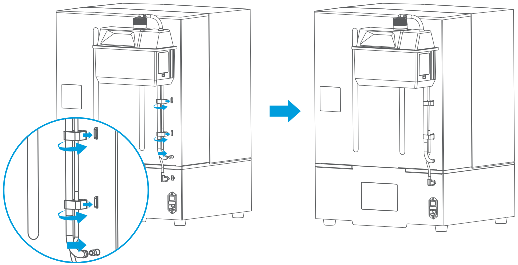


(Picture2)

Installation of Automatic Resin Feeding and Recycling Module

06

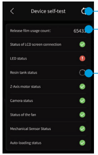
Next, connect the resin tube and power cord to the ports on the back of the printer. Then, use the included cable ties to neatly secure them to the two mounting points on the back (see Picture 3).



(Picture3)

Device Self-Check

Note: Upon startup, the printer conducts a self-check of key hardware components to prevent due to hardware malfunctions. If an error occurs, follow the on-screen instructions to troubles Do not touch the printer during the self-check process (see Picture 4).



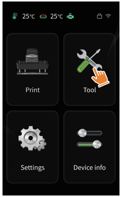
Device self-test
Release film usage count: 6543
Status of LCD screen connection ✓
LED status !
Resin tank status ○
Z-Axis motor status ✓
Camera status ✓
Status of the fan ✓
Mechanical Sensor Status ✓
Auto-loading status ✓

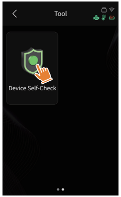
Rerun the self-check

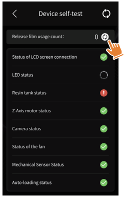
Accumulated release film usage

Follow prompts to check device status

When the release film nears 60,000 uses, the device will notify you to replace it promptly. Afte film, click the refresh button on the device's self-test page to reset the usage counter (see Pictu







Device self-test
Release film usage count: 0
Status of LCD screen connection ✓
LED status ○
Resin tank status !
Z-Axis motor status ✓
Camera status ✓
Status of the fan ✓
Mechanical Sensor Status ✓
Auto-loading status ✓

printing failures
hoot the printer.

(Picture4)

r replacing the
ure 5).

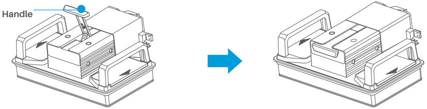
(Picture5)

Test Print

1. Preparation for Printing

Before first use, remove the protective films from the bottom of the build plate and the resin tank.

Insert the build plate into the mounting bracket, then press down firmly on the handle to lock it in place.

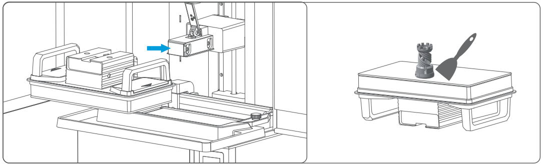


2. Model Printing

Enable the "Auto-feeding" function to prepare the resin transfer nozzle for dispensing. Slowly add resin to the tank, filling it to near the MAX line, but do not exceed it. (The device will perform a self-check before printing. Do not touch the machine during this process.) Close the printer door, and select the pre-sliced test model to begin printing.

3. Model Processing

Once printing is finished, insert the drip tray parallel to the resin tank until it is fully seated. This will catch any excess resin when you remove the build plate. Lift the handle to release the build plate, then use the provided scraper to detach the model. For optimal results, we recommend using the ELEGOO washing and curing station to post-process your model.



Software Installation and Setup

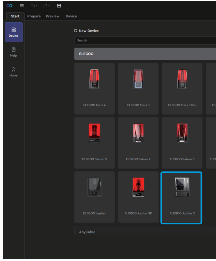
The printer works seamlessly with ELEGOO Satell
USB drive.

1. Installing ELEGOO SatelLite

You can install the ELEGOO SatelLite slicing softw
ELEGOO official website (www.elegoo.com).

2. How to Use ELEGOO SatelLite (See Picture 6)

Once installed, run the ELEGOO SatelLite softwar
Click "Next" to configure your slicing settings.



3. ELEGOO SatelLite Settings

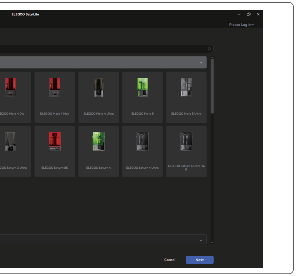
3.1 Printer Configuration Parameters

After entering the "Slicing Settings" page, the de
modification(see Picture 7)."X" indicates the max
to the other axes.

Lite slicing software, which can be found on the included

ware directly from the USB drive, or download it from the

e. Select ELEGOO Jupiter 2 as your default printer.



(Picture6)

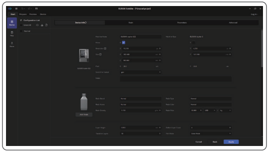
fault machine parameters generally do not require
imum printable size along the X-axis, and the same applies

3.2 Resin Parameters

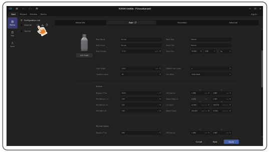
Resin Presets: In the upper-left Configuration List, Click ☁ to open the Official Resin Library (see Picture 8). Choose your resin, then click “Load Selected” to automatically apply its preset slicing parameters (see Picture 9). Presets

Resin Density: 1.15 g/ml

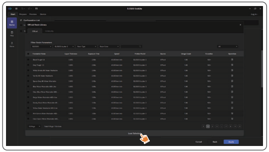
Resin Price: You can enter the price of the resin you purchased, and the slicing software can estimate the resin costs for each model you print.



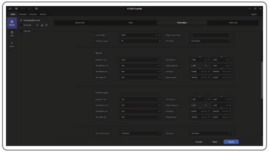
(Picture7)



(Picture8)



(Picture9)



(Picture10)

3.3 Parameters (See Figure 10)

Layer Height: The recommended height for each layer is 0.05 mm. However, you can set it between 0.01 mm and 0.2 mm. The higher the layer height you set, the longer the exposure time required for each layer.

Bottom Layer Count: Set the number of initial print layers. If the bottom layer count is n, the exposure time for the first n layers is the bottom layer exposure time. The default setting is 4 layers.

Transition Layers: The transition layers makes the bonding between the layers tighter. Except for the exposure time, other parameters of the transition layer are consistent with those of the normal layer.

Print Mode: The software presets three different print modes. Select a print mode according to the model and speed. The "Static Mode" is selected by default.

Bottom Layer Exposure Time: Set the bottom layer exposure time. Properly increasing the bottom layer exposure time helps to increase the bonding strength between the printed model and the build plate. The default setting is 45s.

Normal Layer Exposure Time: The exposure time of a normal print layer is set to 3s by default. The higher the print layer height is set, the longer the required time.

Wait Before Cure: The time interval between the start of coming to rest of the build plate after moving to the printing surface and the start of exposure. The default value is 1s.

Wait Before Lift: The time interval between the end of print exposure and the start of moving away from the exposure surface by the build plate. The default value is 0s.

Wait After Lift: The time difference between the start of coming to rest of the build plate after lift and the start of retraction. The default value is 1s.

Lift Distance: During the printing process, the distance that the build plate leaves the printing surface each time is set to 4.5+4.5 mm by default.

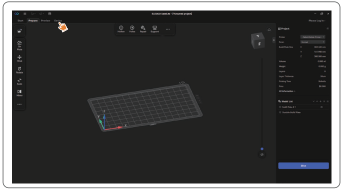
Retract Distance: During printing, the retract distance of the build plate should not be changed without sufficient reason.

Lift Speed: During printing, the default speed of the build plate moving away from the printing surface is 60+280 mm/min.

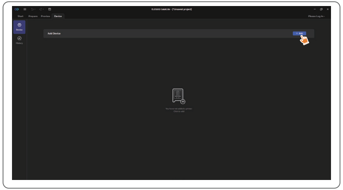
Retract Speed: During printing, the movement speed of the build plate when it approaches the printing surface is set to 280+60 mm/min by default.

Note: The printing parameter examples listed in this manual are for reference only. In actual applications, please contact the official after-sales support for parameter confirmation based on factors such as the device model and resin (including type and color) used.

1. Open the slicing software and click “Device” in the top left corner to enter the devi
(see Picture 11).



2. After entering the device management center, click “Add Device” to associate the
computer and printer are in the same LAN). After associating the device, you can rem
the software (see Picture 12).



ce management center

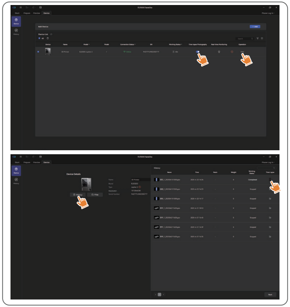
(Picture11)

printer (make sure the
otely control it through

(Picture12)

---

1. In the printer management interface, you can use the camera to monitor printing in real-time. You can also enable time-lapse photography function before starting a print. In the printing record, you can view and export the generated time-lapse video (see Picture 13).



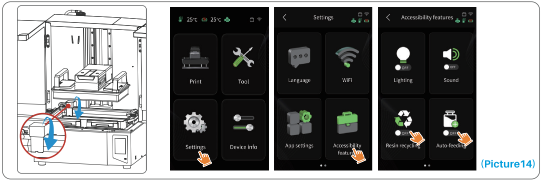
(Picture13)

Notes:

1. Time-lapse photography can only be used when the model height exceeds 50 mm. Time-lapse recording starts at 40 mm height and requires additional processing time after the print is completed in order to generate the time-lapse videos. The processing time is directly proportional to the model height.
2. The device can store up to 20 time-lapse videos. Once the storage is full, the videos will be automatically replaced in the order they were generated. Therefore, please download your time-lapse videos promptly.

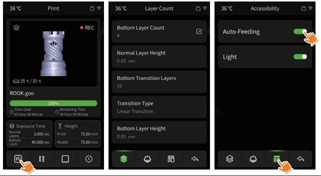
2. Instructions for Use

2.1 Before starting a print, ensure the resin transfer nozzle is correctly positioned for automatic operation. Check the resin bottle to confirm it contains an adequate supply of resin. This system allows for both automatic resin feeding and recycling. Access these features by navigating to “Settings” > “Accessibility features.” Here, you can toggle the “Auto-feeding” and “Resin recycling” functions on or off (see Picture 14).



(Picture14)

When “Auto-feeding” is enabled, the module will automatically dispense more resin if it detects a low resin level during the printing process. You can enable or disable this feature on the “Settings” page (see Picture 15).



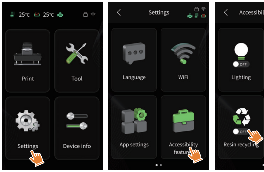
ROOK.goo
Time Used 03 Hour 40 Minute
Remaining Time 00 Hour 00 Minute
Exposure Time
Normal Layers 3.000 sec
Bottom Layer 45.000 sec
Height
Print 75.00 mm
Model 75.00 mm

Bottom Layer Count 4
Normal Layer Height 0.05 mm
Bottom Transition Layers 10
Transition Type Linear Transition
Bottom Layer Height 0.05 mm

Auto-Feeding ●
Light ●

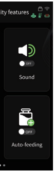
(Picture15)

2.2 To recycle resin, go to “Settings” > “Accessibility fea
The nozzle will move to the bottom of the resin tank and
process will then stop automatically. If there is still a sign
bottle and repeat the recycling process (see Picture 16).



During the resin recycling process, if there is a small amount of resin remains in the tank and cannot be recycled, tilt the tank slightly by placing the screw knob end under the tank at the indicated arrow position to fully recycle the resin (see Picture 17).

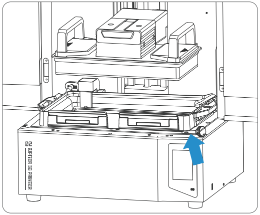
tures” and enable the “Resin recycling” function.
begin recycling resin until the resin bottle is full. The
iificant amount of resin in the tank, replace the resin


ity features

Sound
OFF

Auto-feeding
OFF

(Picture16)



(Picture17)

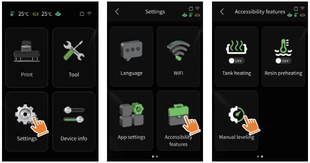
Notes:

1. The module can only automatically add resin during printing and can only recycle resin when not printing.
2. If an exclamation mark "!" appears on the printer’s self-check screen, please check that the power cord is properly connected.
3. During printing, if the resin bottle is running low, replace it immediately to ensure uninterrupted printing with the automatic feeding system.
4. If you receive a pop-up message indicating that the resin tank is not properly installed or the resin transfer nozzle is not positioned correctly, carefully follow the on-screen instructions to resolve these issues before proceeding.

If you experience print failures like models detaching from the build plate or corners warping, it's necessary to use the "Manual Leveling" function to check and adjust the leveling. Before proceeding, remove the resin tank and ensure that there are no foreign objects on the LCD screen or build plate.

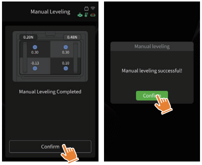
1. Build Plate is Already Leveled

Securely install the build plate, ensuring that there are no foreign objects on the build plate or the LCD screen. Go to “Settings” > “Accessibility features” > “Manual leveling” to enter the manual leveling interface. Follow the on-screen prompts and click “Next” to proceed (see Picture 18).



(Picture18)

If the build plate is already properly leveled, you'll see a “Manual leveling completed” message. Continue to follow the on-screen prompts and click "Confirm" to finalize the leveling check and return to the main interface (see Picture 19).



Manual Leveling Completed

Manual leveling successful!

(Picture19)

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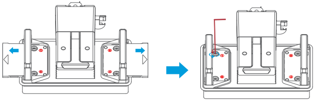
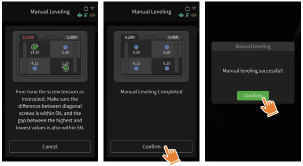
2. Build Plate is Not Leveled

If the manual leveling screen displays "Fine-tune the screw tension
between diagonal screws is within 5N, and the gap between the hig
it means the build plate requires manual adjustment. First, fully tigh
follow the on-screen instructions to adjust the two red-highlighted
required range (see Picture 20). Once all four corner values pass ve
message and continue clicking "Confirm" through the subsequent
return to the main interface(see Picture 21).



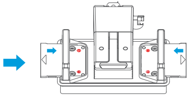


Fine-tune the screw tension as instructed. Make sure the difference between diagonal screws is within 5N, and the gap between the highest and lowest values is also within 5N.

Manual Leveling Completed

Manual leveling successful!

as instructed, Make sure the difference
ghest and lowest values is also within 5N.,"
nten all four leveling screws clockwise. Then,
diagonal screws until their values meet the
rification, confirm the leveling completion
prompts to finish the leveling check and

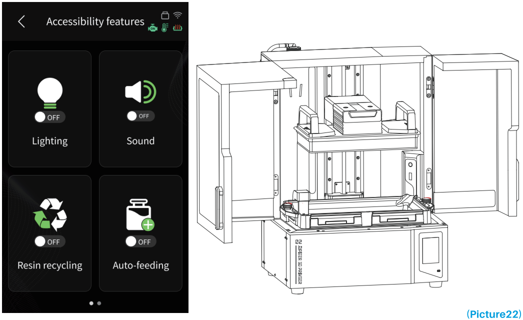


(Picture20)

(Picture21)

Accessibility Features

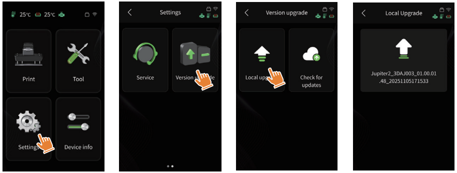
1. Activate the lighting feature in low-light conditions to assist the camera in capturing clear images.
2. Adjust sound preferences manually on the accessibility features page.
3. When printing in lower temperatures, use the tank heating function to preheat the resin before printing.
4. Enable the resin preheating function to promptly heat the resin in the tank, preparing it to the ideal temperature for seamless printing when needed. The resin can be kept at the desired temperature for up to 24 hours, after which the heating process will automatically stop (see Picture 22).



(Picture22)

1. Local Upgrade

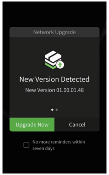
Download the local upgrade firmware package file to a USB flash drive in advance. Insert the USB flash drive into the printer, click “Settings,” then click “Version upgrade,” and select “Local upgrade.” Select the version to upgrade and click "Confirm" to start the upgrade (see Picture 23).



(Picture23)

2.Network Upgrade

When the printer is connected to the network after startup, a pop-up prompt will appear if there are firmware updates available. You can choose to upgrade the printer firmware (see Picture 24).


Network Upgrade

New Version Detected

New Version 01.00.01.48

☐ No more reminders within seven days

(Picture24)

I. Automatic Resin Feeding Not Working During Printing

1. Confirm that the “Auto-feeding” function is enabled in the printer’s settings.
2. Ensure the power cable is securely connected. Try unplugging and re-plugging th device self-check after re-connecting indicates a proper power connection.
3. Check if the probes are mistakenly connected together. Automatic feeding shoulc level drops below the probes.

II. “Resin Bottle Empty” Error Despite a Full Bottle

1. Ensure the terminals for the liquid level sensor are securely plugged in and not dar
2. Ensure the gap between the resin bottle and the module’s detection surface is not
3. The system may not support the resin being used. Try a different resin.

III. Resin Tank Overfilling - System Keeps Adding Resin Even When

1. The transfer nozzle must be correctly and fully seated to allow the probes to accur level in the tank.
2. If the resin level exceeds the probes and continues past the “MAX” line without sto not support this particular resin. Try a different resin.

IV. Resin Recycling Not Functioning

1. Ensure the power cable is securely connected. Try unplugging and re-plugging th device self-check after re-connecting indicates a proper power connection.
2. Ensure the terminals for the liquid level sensor are securely plugged in and not dar
3. The system may not support the resin being used. Try a different resin.

V. Resin Bottle Overfilling During Recycling

1. Ensure the terminals for the liquid level sensor are securely plugged in and not dar
2. Ensure the gap between the resin bottle and the module’s detection surface is not
3. The system may not support the resin being used. Try a different resin.

e cable. A successful

l initiate when the resin

maged.

excessive.

Full

ately sense the resin

opping, the system may

e cable. A successful

maged.

maged.

excessive.

●Please do not use sharp or pointy tools to scrape the resin tank to avoid damaging the release film.

●Please clean up the resin tank before changing the resin to another color.

●Before and after printing, clean the build plate with paper towels or alcohol to ensure that there are no bumps or burrs on the build plate.

●Before each printing, daily check the exterior of the machine and all mechanical parts for any obvious damage, defects, or abnormalities.

●Try to keep the printing environment at 25-30 °C when printing, and ventilate the printing room as much as possible to facilitate heat dissipation of the machine and resin odor volatilization.

●If the Z-axis keeps making friction noise, please add some lubricant to the lead screw. Please check and apply lubricant grease at least every 2-3 months, and increase the frequency of application as the printing frequency increases.

●If you don't use the printer in the next 48 hours, please pour the remaining resin from the resin tank back into the resin bottle and seal it well. If there is any residue, please use a filter to filter it out.

●The release film is a consumable item, please replace it regularly according to the machine prompts to ensure the success rate of printing.

●Please be careful when removing the printing platform to prevent damaging the LCD screen. Make it a routine to clean the screen regularly, and unplug the printer promptly after each print. If there is a screen exposure problem or service life has seriously affected the print quality, please replace the screen in time.

●Regularly clean the contact points between the bottom of the resin tank and the machine to ensure smooth operation of the tank heating function and prevent damage to the machine.

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