



Aura Pro 1

16K 10.1" LCD 3D Printer

User Manual

Table of Contents

Safety Instructions	-----	01
Accessory List	-----	02
Machine Overview	-----	03
Specifications	-----	04
Touchscreen Interface	-----	05
Test Printing	-----	09
Machine Maintenance	-----	10



Safety Instructions

Please make sure to carefully read the following safety tips

Work environment safety

- 1: Please ensure that the workbench of the printer is clean and tidy.
2. Keep the printer away from flammable gases, liquids, and dust during operation.
The high temperatures generated during printing may react with dust, liquids, or flammable gases in the air and cause a fire.
3. Children and untrained personnel must not operate the equipment unsupervised.
- 4: Please ensure that the build platform is clean and properly installed before printing to prevent damage to the LCD screen.

Instructions for use

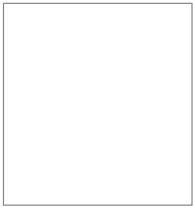
- Please keep the 3D printer and its accessories out of reach of children.
- The capacity of the resin in the hopper shall not be less than one-third of its capacity, but shall not exceed the MAX line.
- Please place the printer in a dry environment and protect it from rain and moisture.
- If there is an emergency during use, please turn on the power of the 3D printer in a timely manner.
- Please use the printer indoors and avoid direct sunlight or dusty environments.
- Please use ethanol with a concentration of 95% (or higher) to clean the model, unless you are using washable resin.
- If printing fails, remove any excess cured resin from the hopper, otherwise it will damage the printer.
- Please wear a mask and gloves when operating the 3D printer to avoid direct contact between the resin and the skin.
- If the release film in the material tank turns white, becomes heavily scratched, loses elasticity, or results in frequent print failures, replace it promptly.
- If any issues occur during use, please contact after-sales support. Do not disassemble or modify the printer without authorization, or the warranty will be void.



Each 3D printer undergoes a print test before leaving the factory. Therefore, any remaining material in the resin tank or on the build platform, as well as minor scratches, are normal and do not affect use.



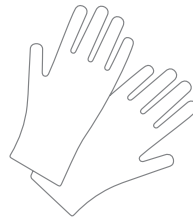
Accessory List



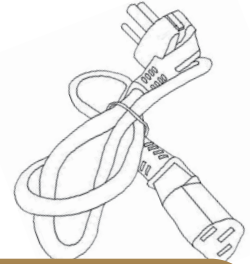
Release Film*1



Metal blade*1



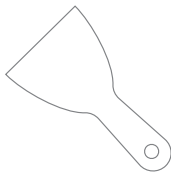
Rubber gloves*2



Power cord*1



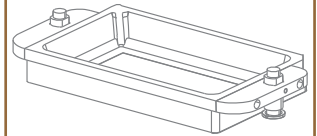
U disk*1



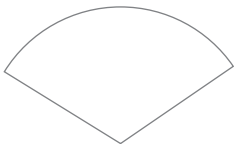
Plastic shovel * 1



M4 Screw*4



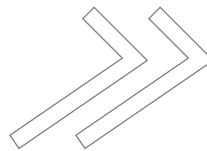
Resin tank*1



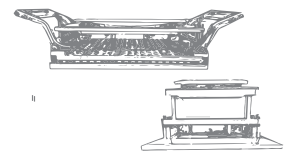
Resin filter*5



Screen frame sticker * 1



Hex Key*2

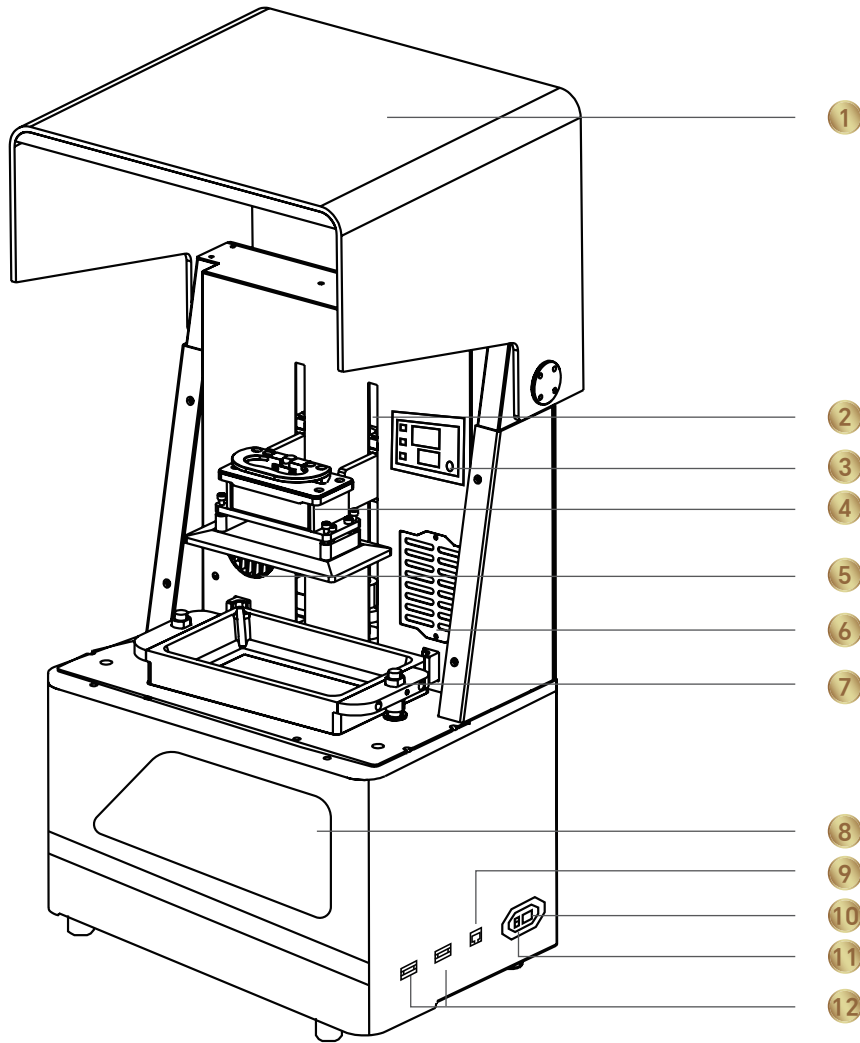


Print platform*2

*Attention: The above accessories are for reference only, please refer to the actual product!



Machine Introduction



- | | | | |
|----------------|------------------|----------------------|------------------------|
| ① Lens hood | ② Z-axis module | ③ Temp Monitor | ④ Printing platform |
| ⑤ Air Purifier | ⑥ Heating system | ⑦ Resin tank | ⑧ Touch control screen |
| ⑨ LAN Port | ⑩ Power port | ⑪ Machine key on/off | ⑫ USB port |

*The illustrations of products, accessories, user interfaces, etc. in the manual are only schematic diagrams for reference. Due to product updates and upgrades, there may be slight differences between the actual product and the schematic diagram. Please refer to the actual product for accuracy.

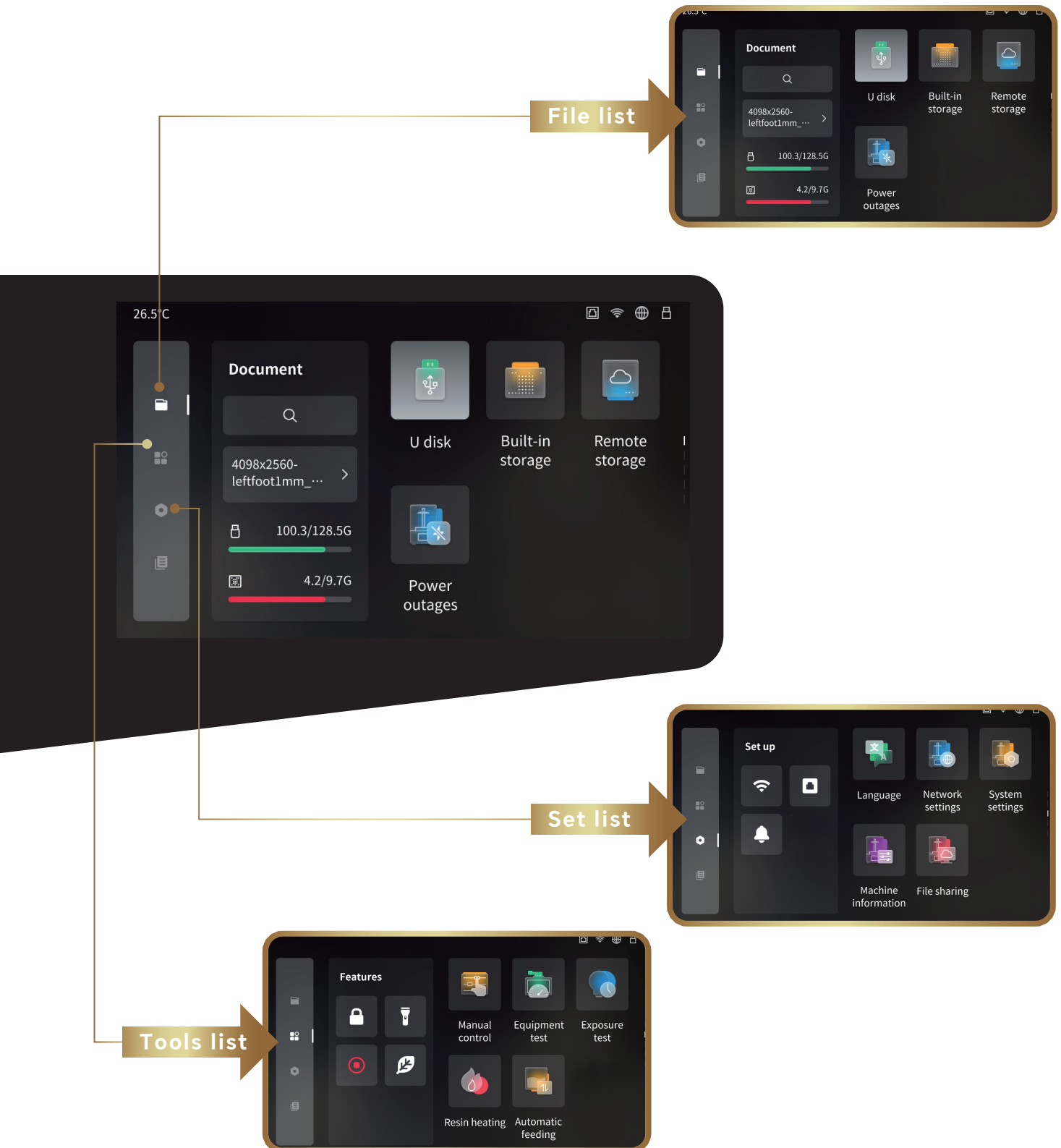


Specifications

Product Name	LCD 3D Printer
Print Screen	10.1-inch 16k Black And White Screen
Resolving Power	15120*6230
Z-axis	Double Linear Guide Rail+ball Screw
Motor	Closed-Loop Motor
Print Size	212*118*150mm
Light Source	COB Direct Light Source
Print Speed	40-80mm/h
Data Transmission	LAN/USB/WIFI
Air Purification	Support
Smart Thermostat	Support
Auto Shutdown	Support
Power-off Resume Printing	Support
Printing Layer Thickness	0.01-0.1mm
Wavelength	405nm COB
Total Machine Power	350W
Xy Pixel Accuracy	14*19μm
Power Input	100~240V AC50~60Hz
Net Weight	28kg
Gross Weight	31kg
Machine Dimensions	370*335*550mm
Package Dimensions	450*410*670mm



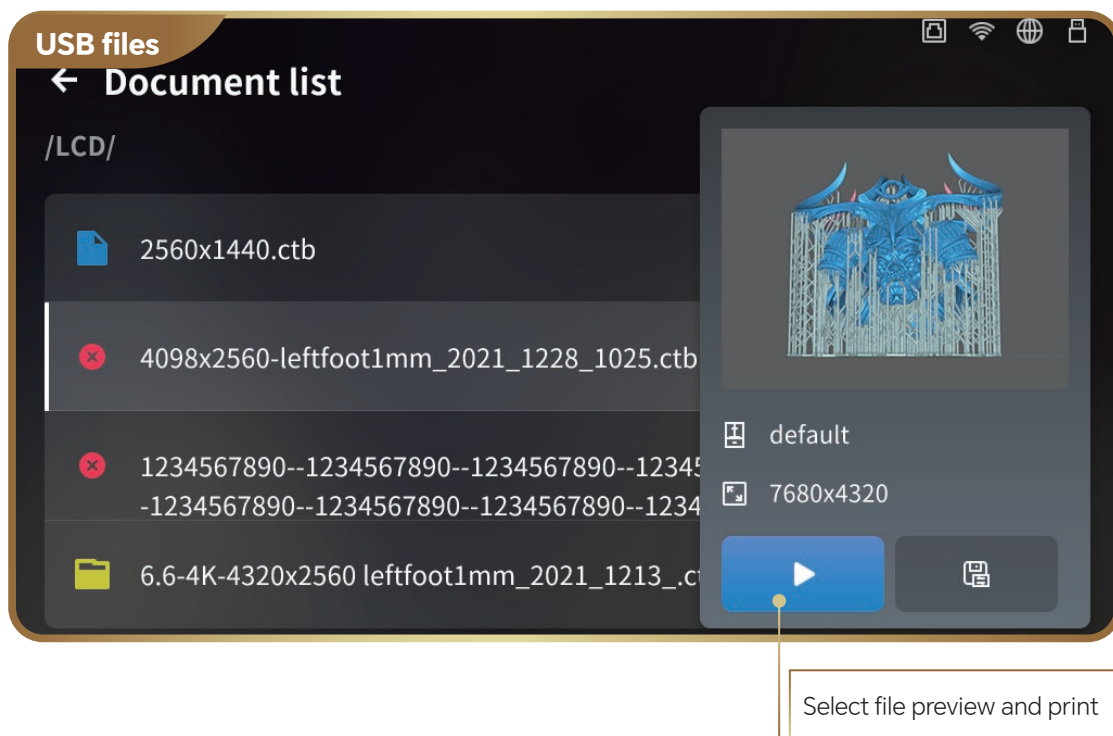
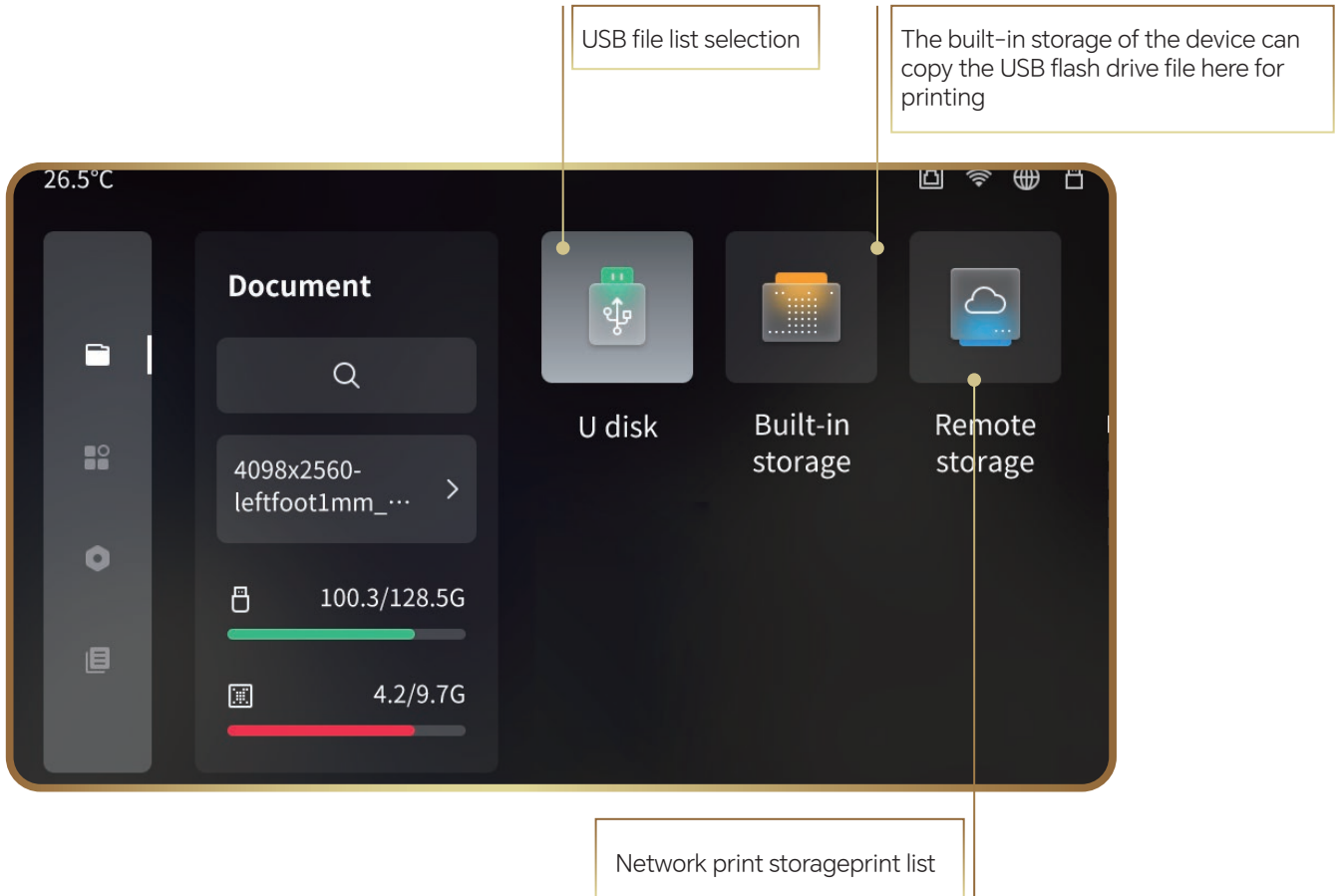
Touchscreen Interface





Touchscreen Interface

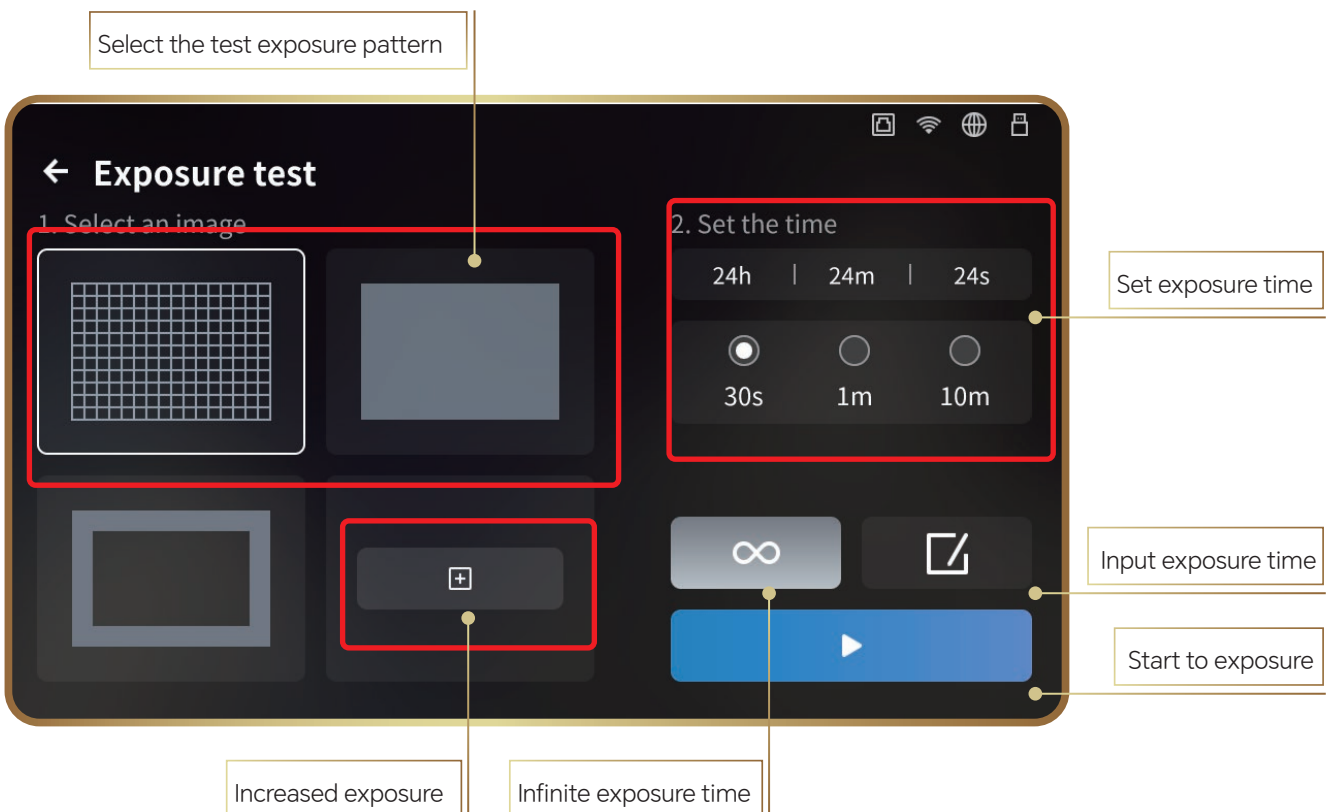
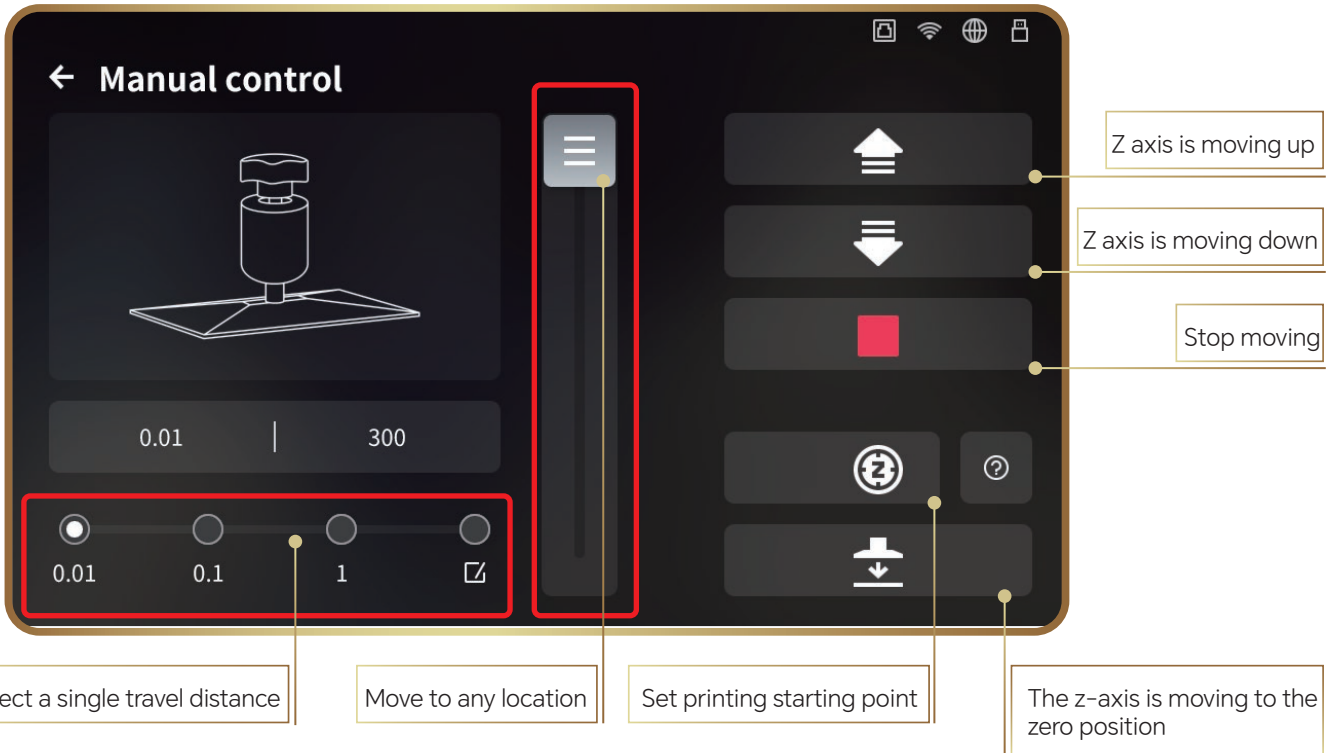
Print list ▼





Touchscreen Interface

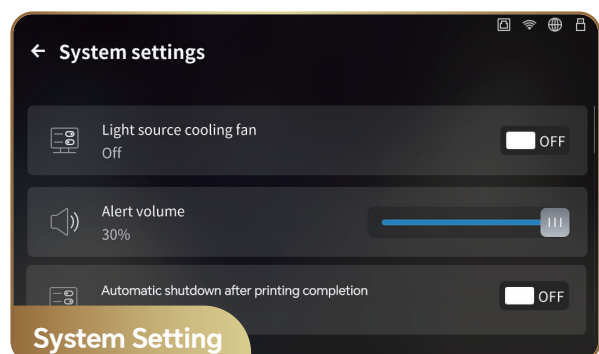
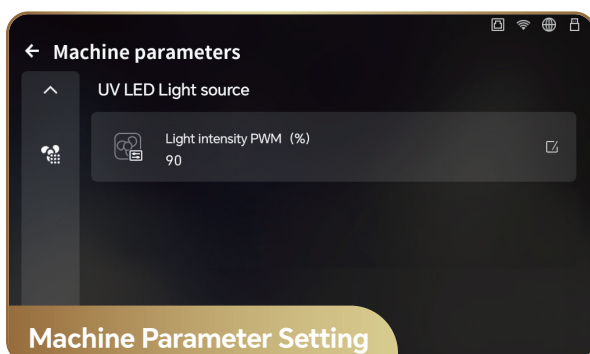
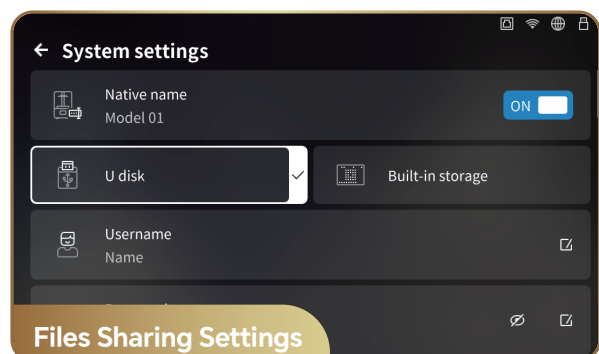
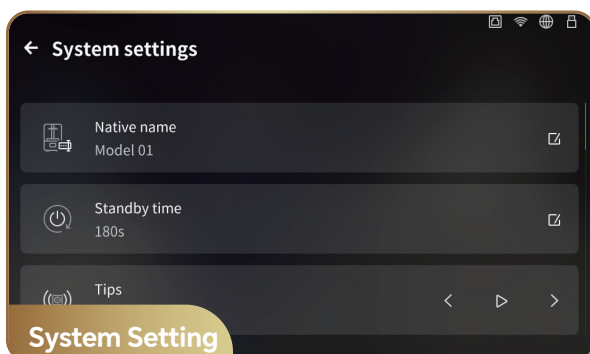
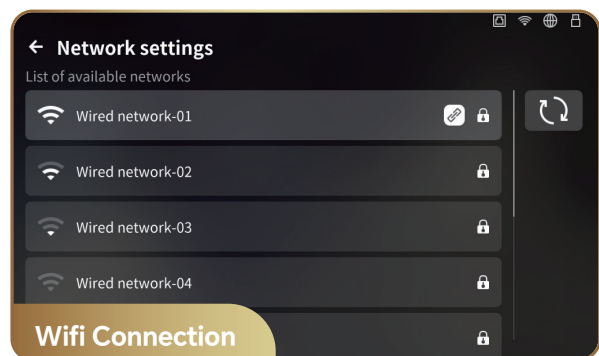
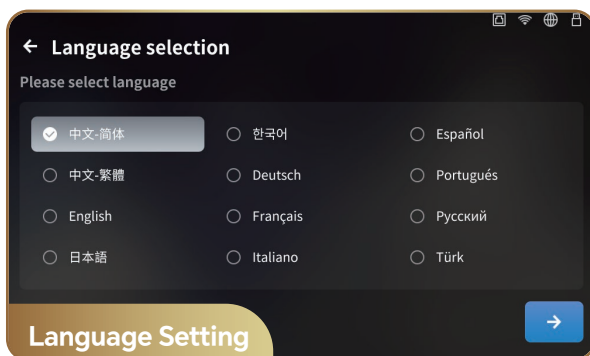
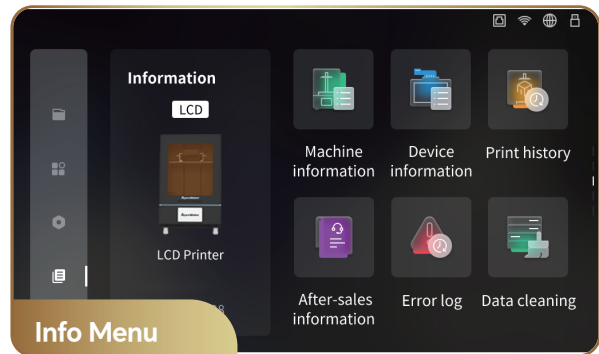
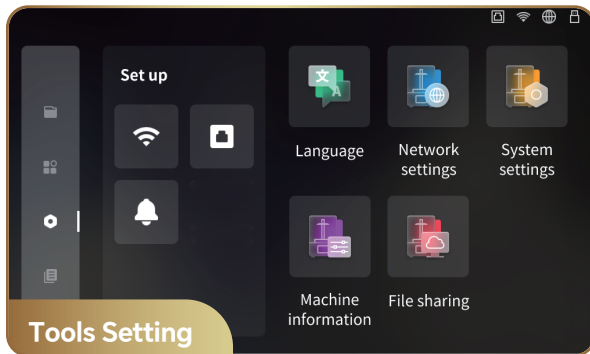
Tool list ▼





Touchscreen Interface

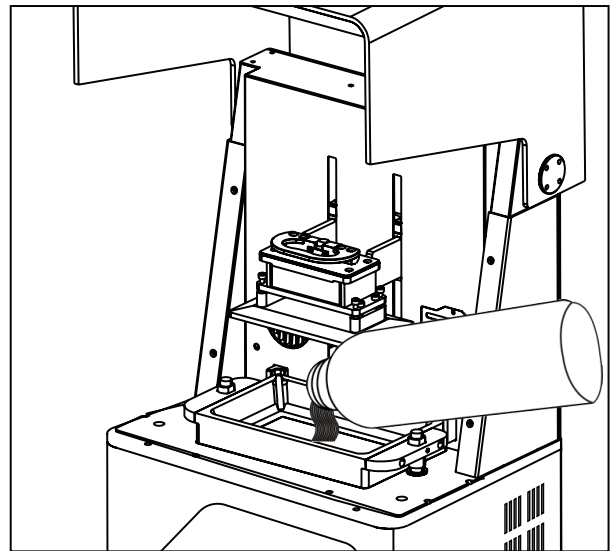
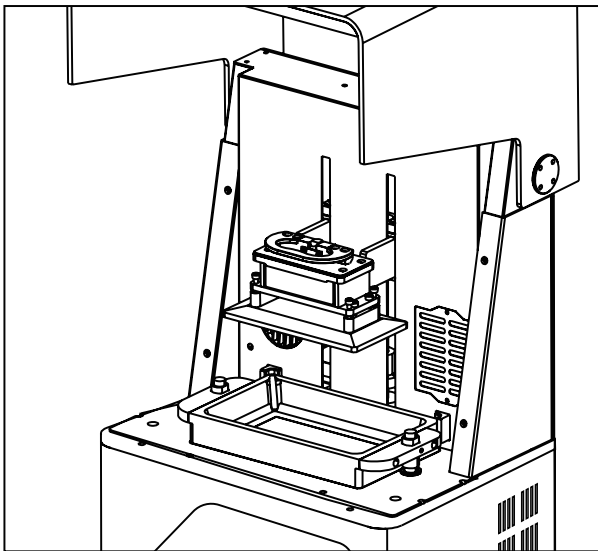
Setting list ▼





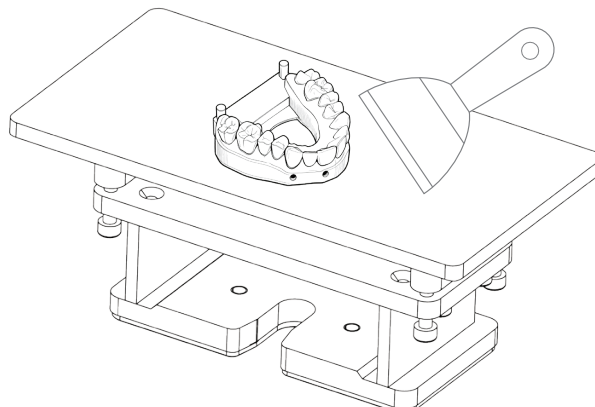
Test printing

1. Check whether the device is exposed properly.
2. Install the printer platform and resin tank ((Note: Press-fit printing platform, press-type material tray installation, screwless structure), then slowly add resin to the resin tank (maximum not more than half the height of the resin tank) cover the printer cover, and then insert the USB disk into the printer to select the sliced test model for printing.



3. After the printing process is complete and the resin has fully stopped dripping from the build plate, remove the build plate and use a scraper to detach the model, or press the platform handle to release the model. The printed part can then be post-processed using dedicated cleaning and curing equipment.

(Please clean the model with 95 degree alcohol).





Machine Maintenance

- Do not use sharp tools to clean the resin tank, as this may damage the release film.
- Before switching to a different resin color, thoroughly clean the resin hopper.
- Before and after printing, clean the build plate with a tissue or alcohol to ensure the surface is free of bumps or burrs.
- Before each print, visually inspect the machine for any obvious damage, missing parts, or abnormal mechanical components.
- Keep the printing environment at 25–30 ° C. Ensure proper ventilation to help dissipate heat and reduce resin odor.
- If continuous friction noise is heard from the Z-axis, apply lubricating grease to the lead screw and guide rail. Check and reapply every 2–3 months, or more frequently depending on usage.
- If the printer will not be used for more than 48 hours, pour the remaining resin from the hopper back into its bottle and seal it properly. Filter the resin through a funnel if residues are present before storage.
- Before each print, inspect the condition of the release film. Check for looseness, excessive scratches, or severe whitening. Replace it promptly if needed. The release film is a consumable part and should generally be replaced every 1–2 months, depending on print frequency.
-
- Be cautious when removing the build platform to avoid damaging the LCD screen. The LCD has an approximate lifespan of 2000+ hours, which decreases with higher usage. Perform regular screen cleaning and unplug the machine after printing. If exposure issues appear or print quality is affected due to screen aging, replace the LCD promptly.

Due to the differences between different machine models, the physical objects and the final images can differ.
The final explanation rights shall be reserved by Aura 3D.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body



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