E230

Product User Manual

1：Packing List

Printing Parameters：

Serial Number	Product Name	Unit	Quantity
one	Photocuring 3D Printing Equipment	piece	one
two	Resin Tank	piece	one
three	Funnel	piece	two
four	Build Platform	piece	one
five	USB Drive	piece	one
six	Bent-tip Tweezers	piece	one
seven	Power line	piece	one
eight	Power Cord	strip	one
nine	Spatula (Plastic, Metal)	hold	1each
ten	Wire Cutter	hold	one
eleven	Gloves	double	one
twelve	Allen Wrench	set	one
thirteen	WiFi connectivity	individual	one

2、Size Introduction

2.1 E230
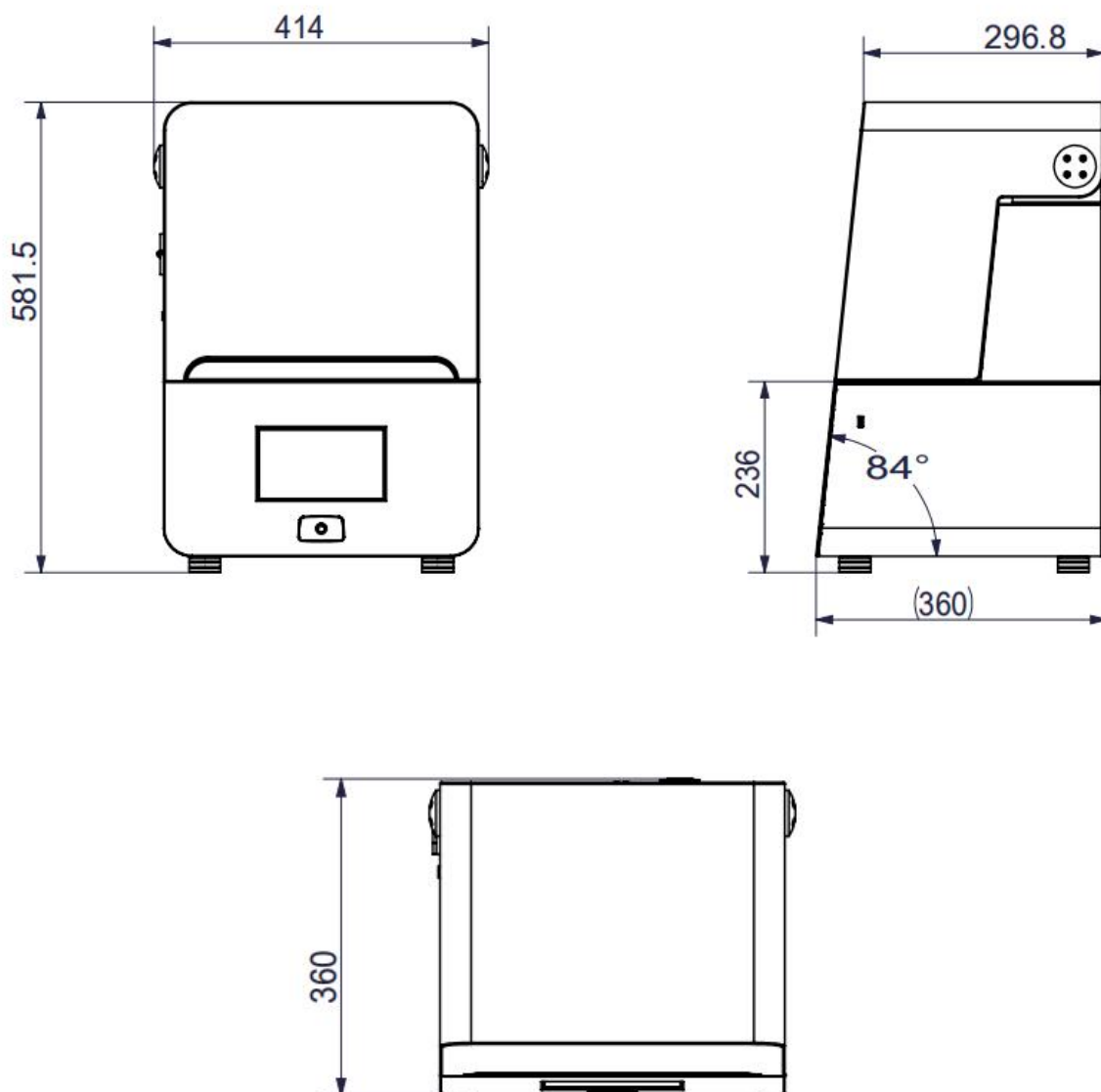
Printing Area	217.4×136×190mm	XY Resolution	0.01mm 9840×5760

3、User Instructions

3.1 Assembly and Power Connection

1. After opening the packaging, take out the accessories inside, take out the power cord and wireless antenna from the accessories, connect the power cord and the power socket at the back of the printer, and plug in the wireless network card. As shown in Figure 3-1
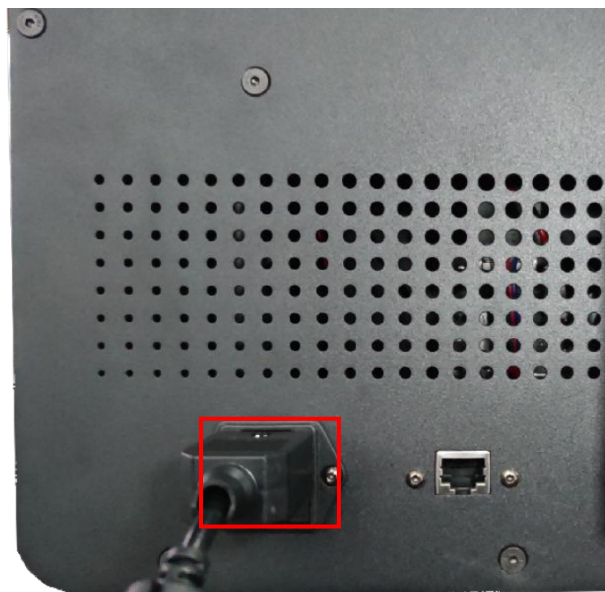

Figure 3-1

2、lightly press the power switch to turn on the printer. Once the printer is turned on, it will automatically enter the main menu as shown in Figure 3-2. Language。

Figure 3-2

3.2 Language

1、The default factory language configuration of this device is English. As shown in Figures3-3 and 3-4.
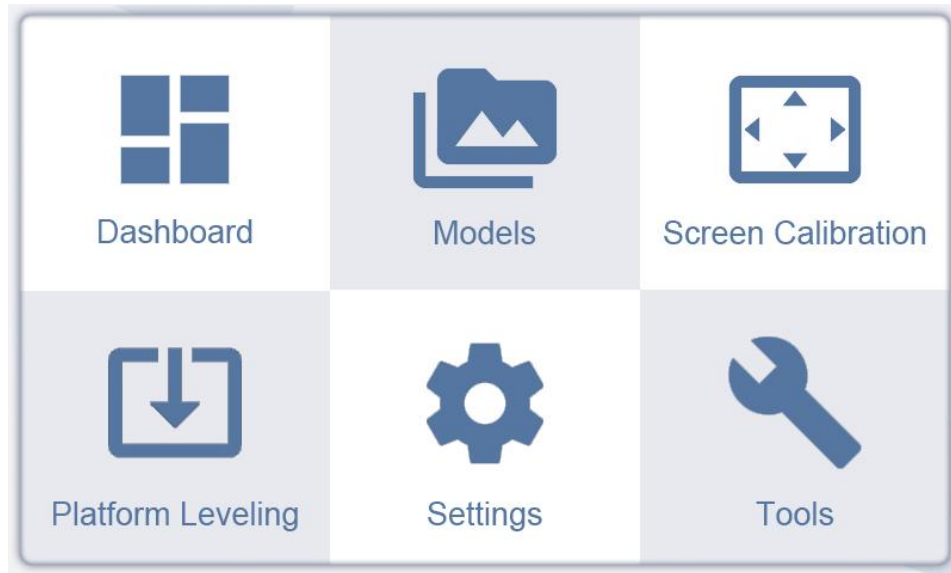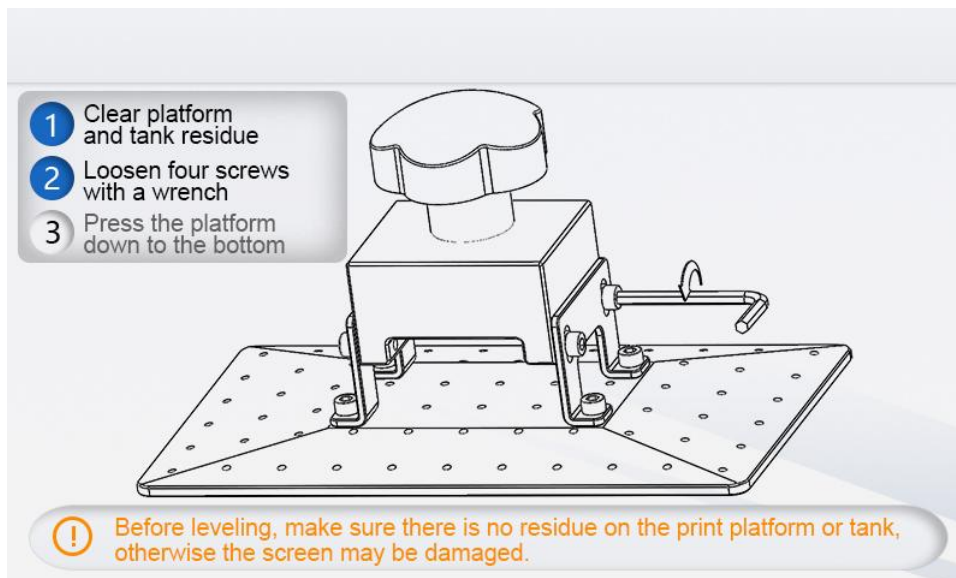

Figure 3-3

Figure 3-4

3.3 Remote connection

Click on the icon marked with "①" as shown in Figure 3-5 to enter the WiFi selection page and connect to WiFi, or connect to the network through the Ethernet port at the back of the device.

Figure 3-5

After confirming the connection, click on "②" in Figure 3-5 to enter the page shown in Figure 3-6 and obtain the device's IP address. In the browser

Figure 3-6

Enter the displayed address to jump to the control panel, as shown in Figure 3-7:
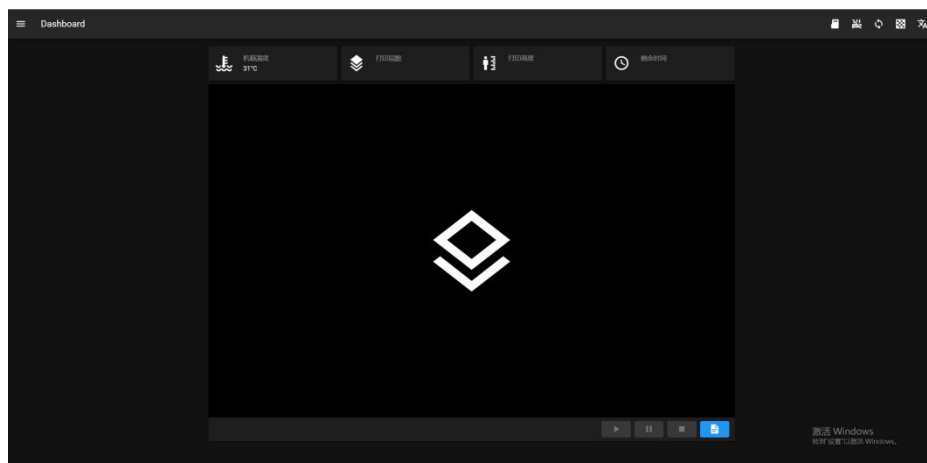

Figure 3-7

3.4 Leveling Operation

All devices are factory calibrated and can be used for printing upon receipt. Under factors such as prolonged usage and external forces, the printing platform may become misaligned, requiring re-leveling. Follow the steps below to perform the operation:

1. Click on 【Platform Leveling】 in the main menu as shown in figures 3-11 and 3-12 to enter the platform leveling mode.
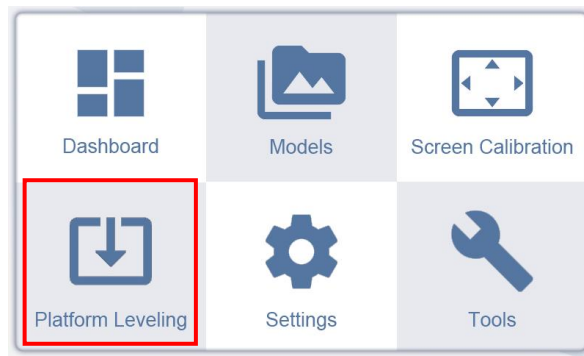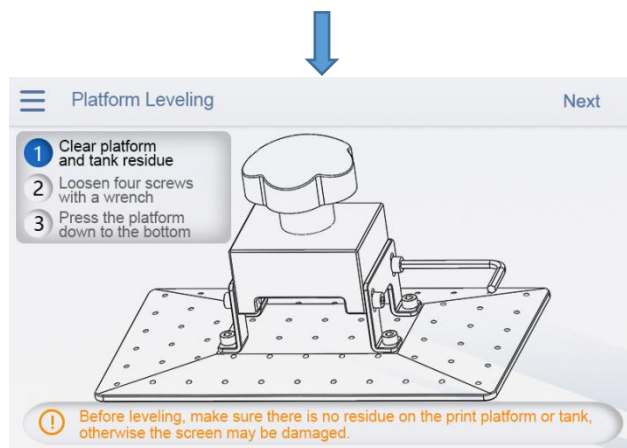

Figure 3-11

Figure 3-12

2. After entering the platform leveling mode, confirm that all four fixed screws of the platform are loosened and there are no foreign objects on the exposure screen. Place an A4 paper on the exposure screen and click【next】 to lower the platform.

3. When the platform presses down onto the exposure screen and stops, hold the platform in the middle with your hand and diagonally pre-tighten the four screws of the platform. Pull the A4 paper with your hand. If there is a noticeable pulling sensation and the four corners are even, press the platform with your hand to tighten the four screws. Otherwise, loosen the screws and repeat the pre-tightening operation until the pulling sensation at the four

corners is even.

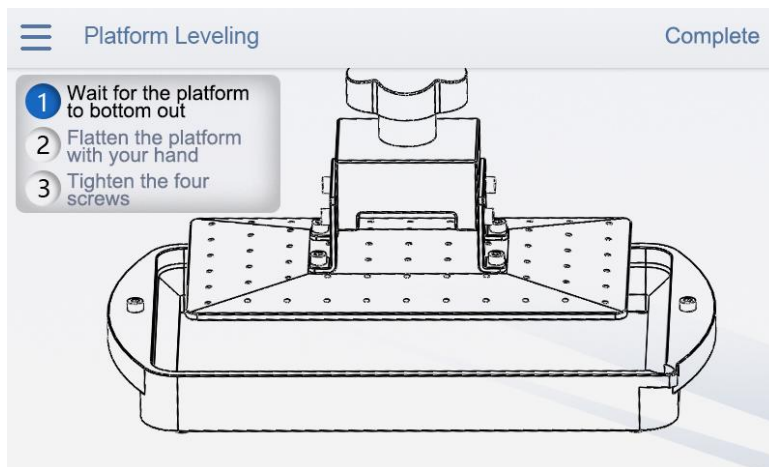4. After completing the operation, click【Complete】as shown in figure 3-13 to finish the leveling process.

Figure 3-13

3.5 Preparing for Printing

1、After leveling is completed, it is necessary to perform an exposure test on the curing screen to check if it is functioning properly. The exposure testing process is as follows: Click on 【Screen Calibration】 in the main menu as shown in figure 3-14, then enter the submenu and click on any exposure pattern again as shown in figure 3-15. This will put the exposure screen into working mode.
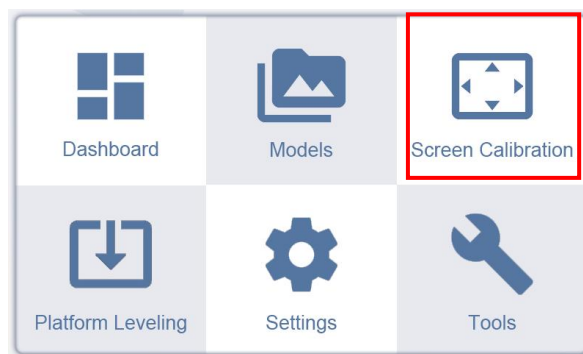

Figure 3-14

Figure 3-15

2.　After clicking on the corresponding exposure pattern, the exposure process will begin, and a graphic identical to the display screen will be displayed on the exposure screen as shown in Figure 3-16. Note: If the exposure screen does not display the graphic properly, it indicates that the curing screen may be damaged. In this case, printing will not be possible. Please contact the after-sales hotline for assistance promptly.
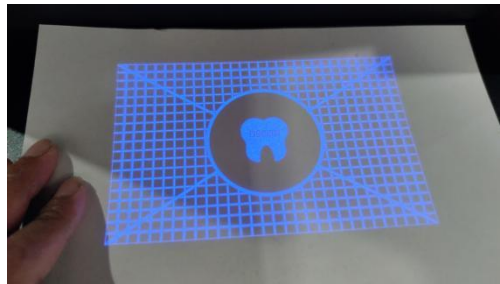

Figure 3-16

3、　After the exposure test is completed, it is necessary to clean the curing screen and the bottom of the resin tray with alcohol to ensure that there are no impurities that may hinder printing. Then, the resin tray can be placed back in its original position, and the two locking bolts shown in Figure 3-17 should be tightened. Once tightened, resin required for printing can be added to the resin tray. (Note: Before adding resin, it is recommended to gently shake it a few times. Avoid shaking it vigorously as it may create excessive air bubbles.) Note: The resin is a slightly toxic substance and direct contact with hands is not recommended. Protective gloves should be worn.

Figure 3-17

3.6 Printing Settings

1. To enable or disable the uniform lighting mode, click on 【Setting】 in the main menu as shown in Figure 3-18 to enter the printing settings page as shown in Figure 3-19. Click on the icon indicated by the red box in Figure 3-19 to select the open/close state of the uniform lighting mode. Status indication:
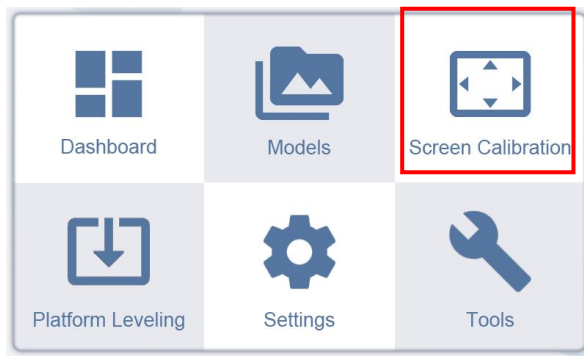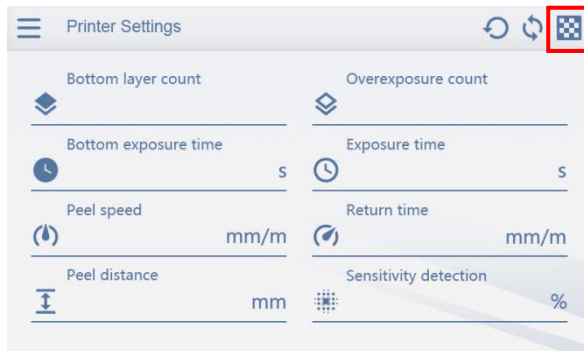
（On）　　　　（Off）

Figure 3-18

Figure 3-19

2. Synchronization mode explanation: When enabled, the printer will execute the print job with the print parameters embedded in the print file itself, such as exposure time, number of layers, speed, etc. When disabled, the printer will execute the print job with the print parameters set on the device. Status indication:

 on   off

3. Heating function on/off: Click on "Dashboard" in the main menu as shown in 3-20 to access the dashboard page, as shown in Figure 3-21. Click on the icon selected by the red box in Figure 3-21 to control the on/off state of the heating function. (Note: If the heating function is enabled and the system detects that the chamber temperature has not reached the set temperature, it will not be able to enter the printing state, thus unable to print.) Status indication:
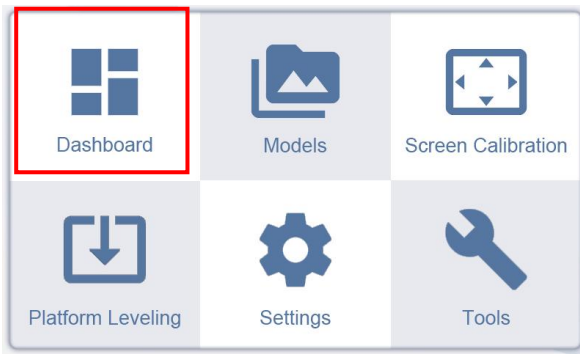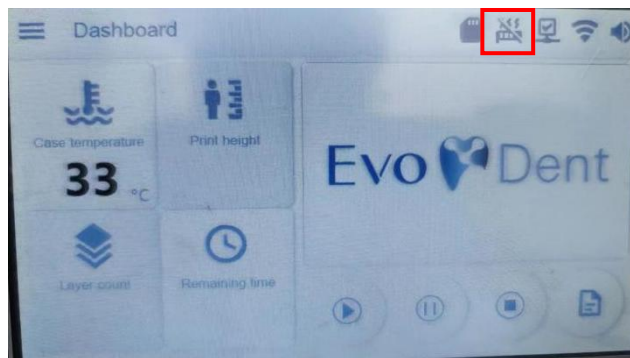
 on   off

Figure 3-20

Figure 3-21

4.Model printing: Click on "Models" in the main menu as shown in Figure 3-22 to enter the model selection page, as shown in Figure 3-23.
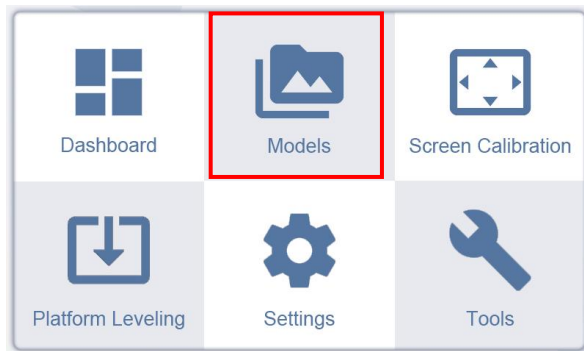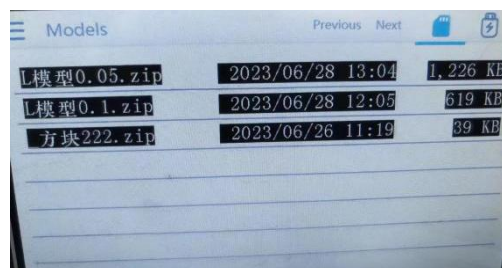

Figure 3-22

Figure 3-23

Find the required file for printing inside and click on it as shown in Figure 2-24 to enter the printing mode.。
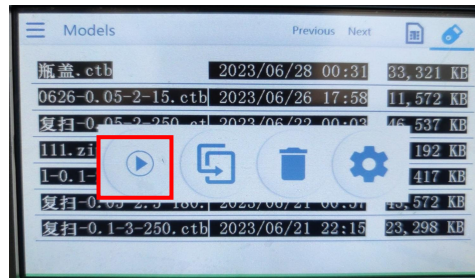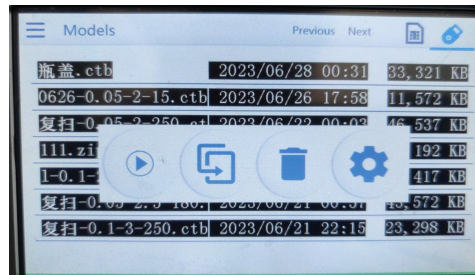
Figure 3-24

After entering the printing mode, click on the triangle symbol on the panel to start printing as shown in Figure 3-25. Clicking on it will redirect to the dashboard page as shown in Figure 3-26. Click on the triangle symbol on the dashboard again, as indicated by the red box in 3-26, to start the printing process.
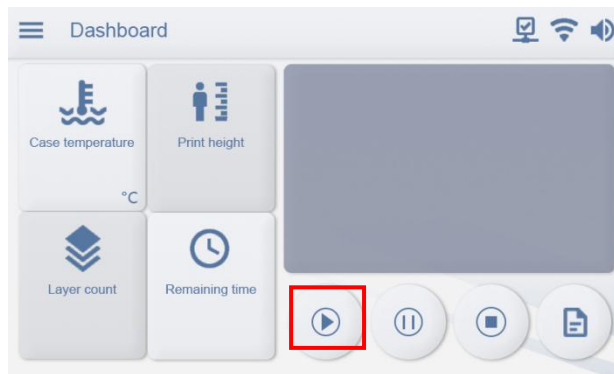

图Figure 3-25

Figure 3-26

3.7 Reservoir Cleaning

Click on "Tools" in the main menu, as shown in Figure 3-27, to enter the secondary menu page. Then, click on "Clear Residue" as shown in Figure 3-28 to access the reservoir cleaning page, depicted in Figure 3-29.
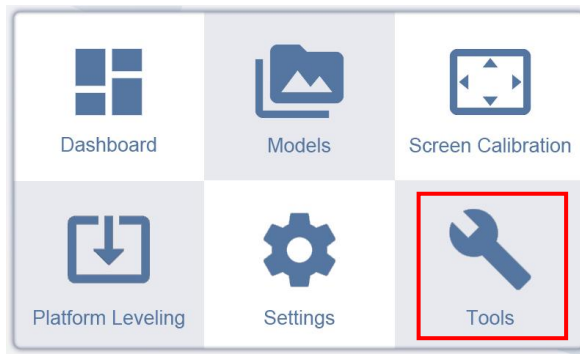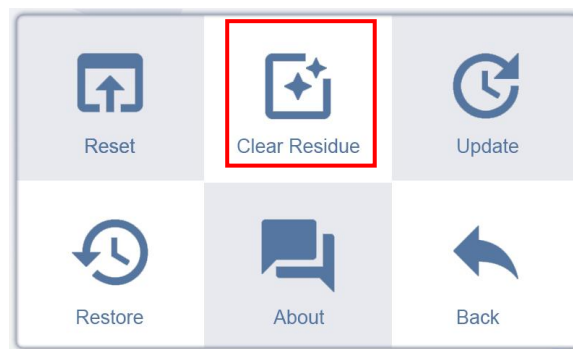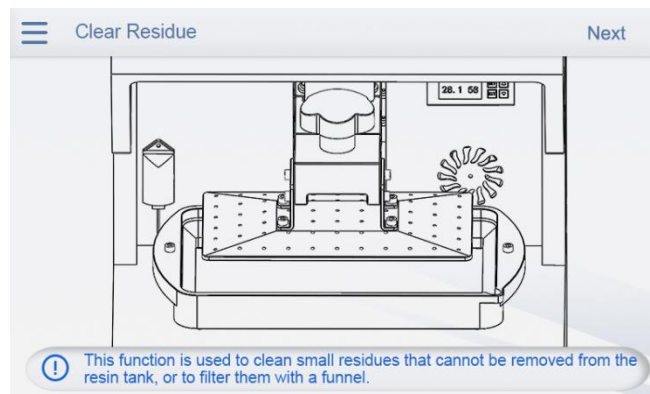
Figure 3-27

Figure 3-28

Figure 3-29

Click on the "Next" option to enter full-screen exposure mode, as illustrated in Figure 3-30. Follow the on-screen instructions to remove the solidified film and then click on "Confirm" to complete the reservoir cleaning process, as shown in Figure 3-31
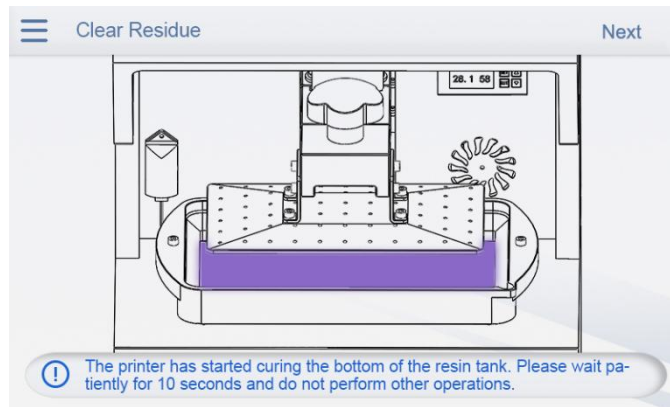
Figure 3-30
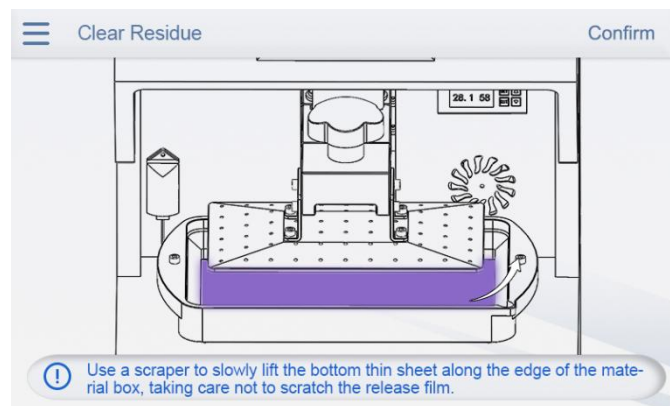
Figure 3-31

4：Maintenance and Cleaning

1. If there is a friction noise during the operation ofthe Z-axis,please apply
   an appropriate amount of lubrication to the Z-axisscrewrod

2. Please do not use sharp objects to scrape or puncture the release film.

3. Be careful not to slide off when removing the platform to avoid crushing the
   curing screen.

4. After the machine is used, the consumables need to be

Returned to the storage tank(using filter paper to filter out the residue)

5. After printing,it is necessaryto clean the residueinside the platform and
   material trough to avoid solidification of consumables.(Wipe directly with
   a tissue or clean with alcohol)

6. If the machine is accidentally contaminated with consumables it can be cleaned
   with alcohol.

7.When switching between different colors of resin the origina color of resin should be cleaned first

5: Section Five: Precautions

1、Please keep the 3D printer, resin consumables, and accessories out of reach of children.

2、Use the machine in a normal room temperature environment on a flat surface. Avoid using it in dusty or strongly sunlit areas and take precautions against rain and moisture (a humid environment increases the risk of electric leakage/ prolonged exposure to sunlight accelerates the aging of plastic parts).

3、It is essential to ground the equipment; do not modify the plug of the device (failure to ground or improper grounding/modifying the plug will inevitably increase the risk of electric leakage).

4、Do not misuse the power cord and always use the one provided by the original manufacturer.

5、Place the machine on a stable surface to ensure the normal operation of the fan and prevent obstruction.

6、Do not use the device during thunderstorms.

7、If the device is not used for an extended period, turn it off and unplug the power cord.

8、Avoid collisions with the platform and resin tank while the equipment is running.

9、Wear gloves before handling resin consumables to avoid direct contact with the skin.

10、When removing models, be cautious and avoid scratching your hands with sharp edges or tools to avoid injury.

11、In case of emergencies, directly turn off the power of the 3D printer.

FCC WARNING

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.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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.