HeyGears

Reflex

Personal Desktop 3D Printer
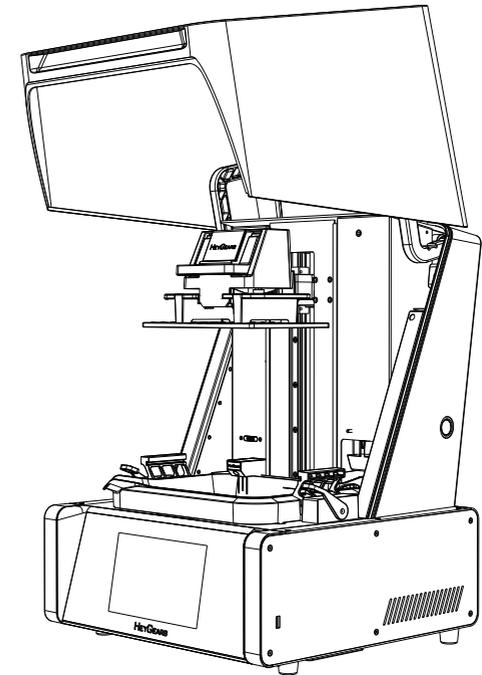
HeyGears

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This quick start must be read and understood before operating the machine

Thank you for choosing HeyGears. **For safety, please contact HeyGears support staff for assistance regarding unpacking and installing the machine**. If you fail to comply with the instructions in this manual, HeyGears will not be liable for the consequential damages unless required by federal and local ordinances.

Please keep this operation manual properly for future reference. The pictures are for reference only and the products are subject to the actual product.

1 Items & Parameters

Printer
X1

Power Cord
X1

Resin Tank
X1

Resin Tank Lid
X1

Build Platform
X1

Release Film
Spare Module
X1

Rubber Gloves
X2

Allen Wrench
X3

Parts Removal
Tool
X1

Scraper
X10

Snipper
X1

Simple Cleaning Box
X1

Screwdriver
X1

Filter Paper
X5
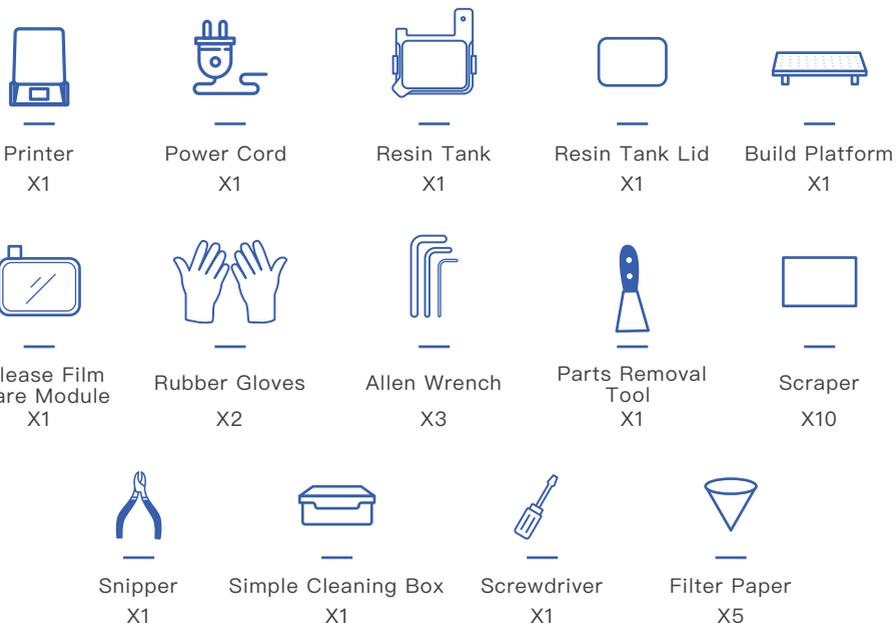
Name	UltraCraft Rapid Production System	Input	100–240 V~ 50/60 Hz
Model	UltraCraft Reflex	Weight	25 kg
Size	400*420*572 mm	Power	350 W

2 Components

Build Platform
Main Axis
Temperature and Liquid Level Sensor
Resin Tank
Detachable Resin Filling Gate
Touch Screen

Hood
Suspension Button
USB Port

Resin Bottle Insert Location
Power Port
Power Switch
Air Tube Port
Inflation Module Port
Ethernet Port
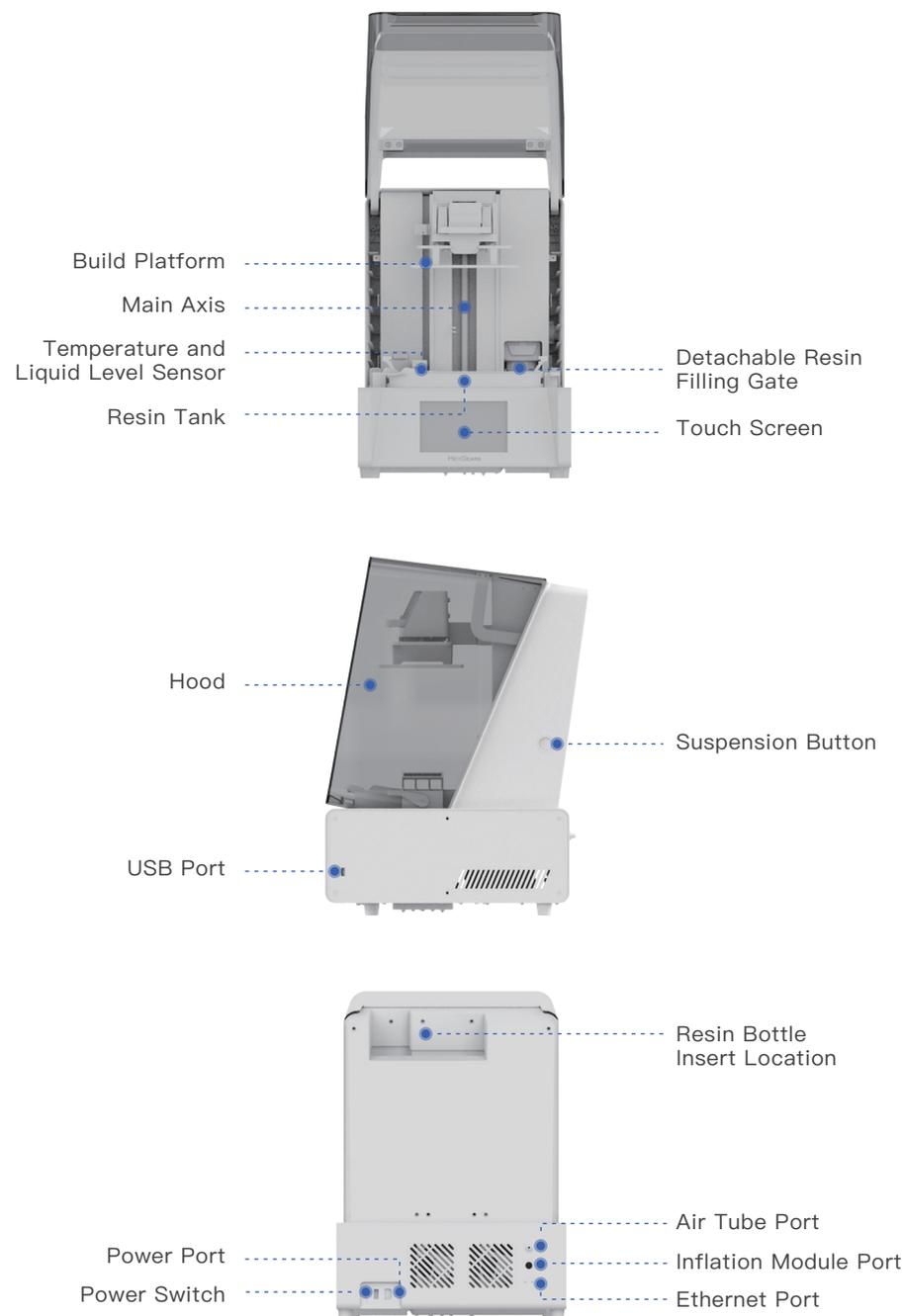
3 Installation Requirements

Position the printer onto a stable table

⚡ **100~240 V** power socket nearby

☀ Protected from exposure to direct sunlight

Temperature & Humidity Control:

🌡 18~25°C   💧 <50%
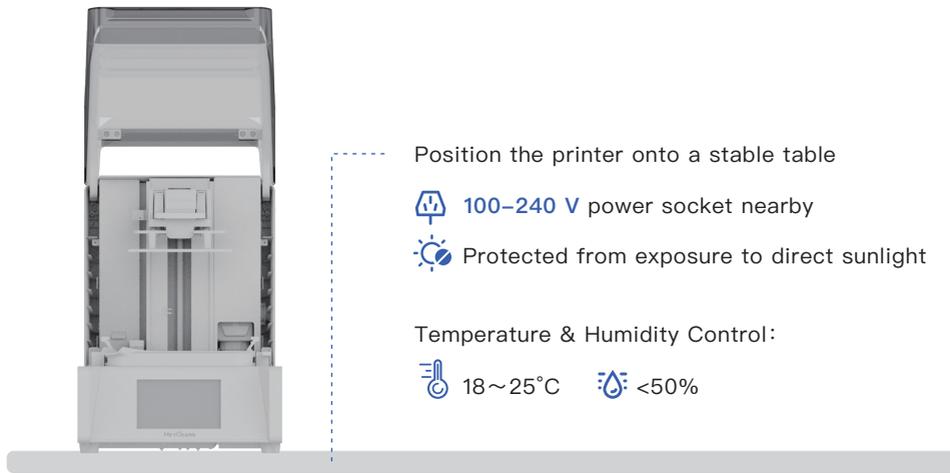
4 Operation Steps

STEP 1

Place the printer on a smooth horizontal surface, check the appearance of the printer to make sure it is in good condition, lift the hood to the highest position and remove the filler inside.

❶ Open the hood

❷ Take out the filler buid platform and cleaning box
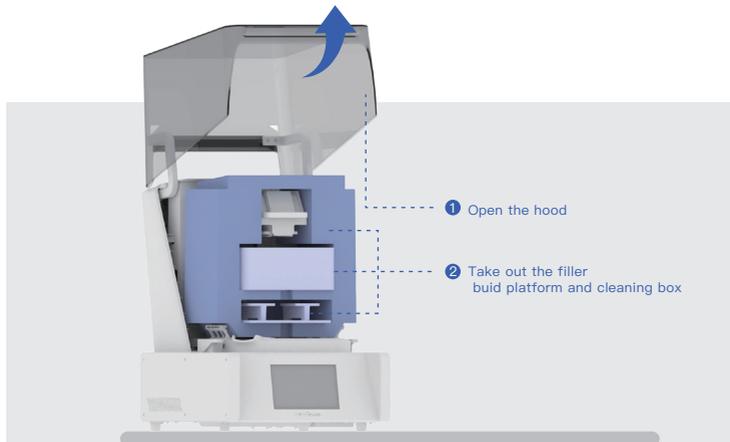
STEP 2

Connect the power supply as shown, and turn on the power switch, then the touch screen lights up to indicate that the power is successfully connected.

❶ Connect to the power supply

❷ Turn on the switch

❸ Screen lights up

STEP 3

Click the button ⚙ on the left navigation bar to enter the "Settings" interface.

Click the button 📶 in the function list to enter the "Connection" interface.
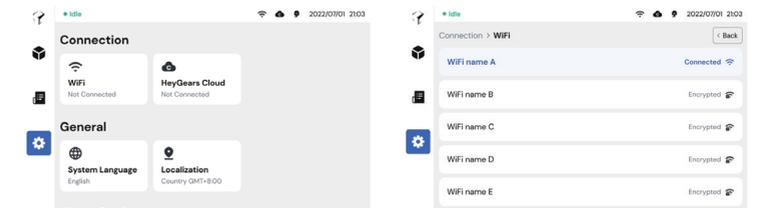

Go through the list of available Wi-Fi, click on which you want to connect to: if the Wi-Fi you choose does not require password verification, click Confirm and the printer will automatically connect to it. Otherwise, you need to type in the password at first connection time.

STEP 4

Remove the resin tank inside the printer, and check whether the outer foam and release film are complete or not. Tear off the dustproof film of the LCD screen and ensure that there is no dust and foreign matters on its surface.
After checking, hold its handles on both sides, aligning with the locking module on both sides, install it into the cabinet with the overhang part facing inward, then pull the locking handles forward. You can shake the resin tank slightly to ensure that it is locked.

❶ Tear off the dustproof film

❷ Install the resin tank in the correct direction

❸ Tighten the locking handle by pulling forward
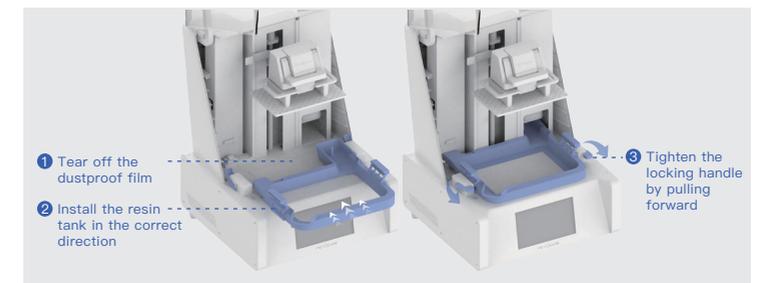
Take out the liquid & temperature sensor and install it in the resin tank as shown below. Make sure that the sensor is magnetically attracted to the resin tank, and the convex part at the end is inserted into the specified position, then you can shake it gently to make sure it is fitted well.

Take out the build platform in the package and keep the locking wrench raised, then install the build platform along the slide. Inset it to the bottom, lock down wrench and close the hood.

❶ Keep the locking wrench raised

❷ Install the build platform along the slide

❸ Lock down the wrench   ❹ Close the hood
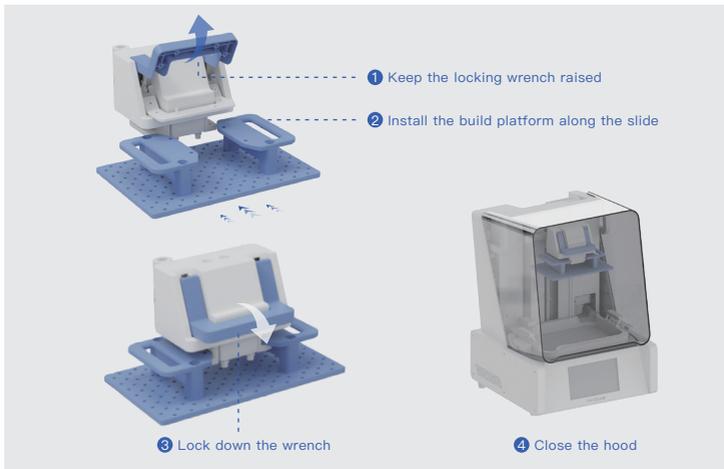
Fully shaken the bottle and open it, then unscrew the cap as shown. Insert the resin bottle downward along the slot into the printer, and lift the top cover of the printer if using a 2L resin bottle.
Insert the resin bottle until you get tactile feedback and the display shows that the resin bottle is inserted.

⚠ CAUTION: Once the resin bottle is inserted into the printer, the resin will flow into the resin tank, please make sure the resin inserted is correct.


❶ Twist the cap counterclockwise   ❷ Insert the resin bottle downward along the slot into the printer
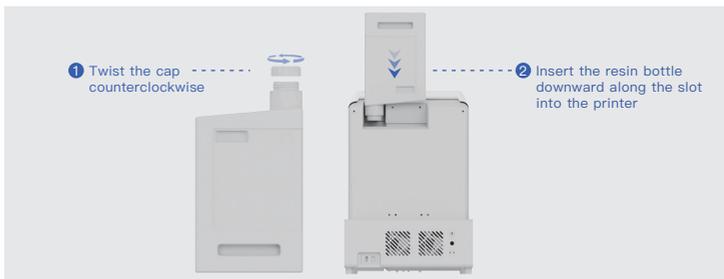
Follow the Ultraflow guide to complete the device binding and pre–processing, and send the job to the printer for printing.

When printing finished, open the hood and unlock the build platform to take it out.
If you need to recover residual resin from the parts, hang the build platform on the main axis at an angle as shown until the resin no longer drips heavily.
After removing the platform, follow the instructions for the post–processing like washing, removing parts and supports, and post–curing etc.

❶
Lifting the locking handle and remove the build platform with parts slightly

❷
Keep the platform unlocked, install the platform diagonally as shown in the picture to the end and wait for the resin inside the model to flow out naturally
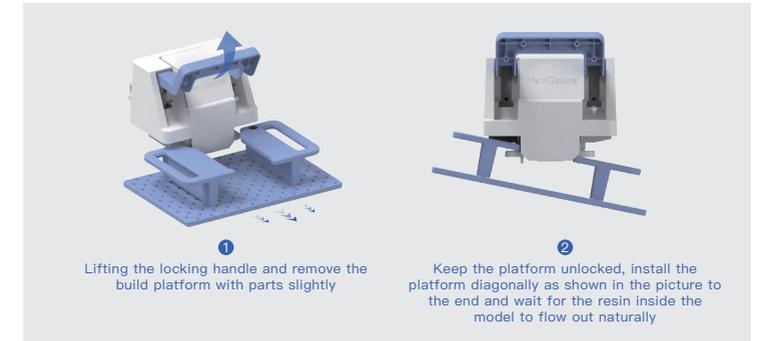
5 Replace the release film

Resin tank and Release Film Spare Module are shown in the picture:

Resin Tank   Release Film Spare Module

Replacement steps

In the idle status, gently pull the resin bottle up along the track and press the suspension button on the side of the printer, then release the bottle so that it is stuck in suspension. When the resin no longer drips naturally from the bottle, remove the bottle along the rail and press the suspension button again to return it to the original state.

❶ Pull out the resin bottle upward

❷ Press the suspension button Release the resin bottle so that it is stuck

❸ Remove the resin bottle when the resin no longer drips from the bottle

❹ Press the suspension button again to return it to the original state
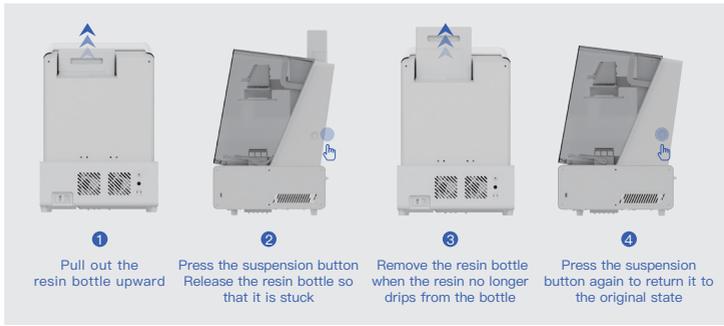
Remove the resin filling gate in the direction shown.

Remove the resin filling gate

Remove the resin tank by pulling back the locking handle on both sides of it.

❶ Pull back the locking handle

❷ Lift up the resin tank slightly to remove it
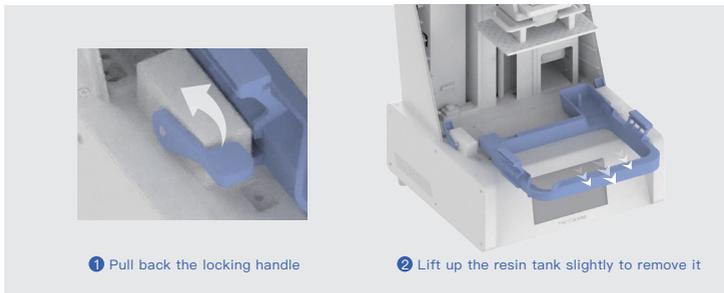
Use the attached wrench to remove the screws of the release film at the bottom of the resin tank. Take out the release film after all the screws are removed.

❶ Remove the screws

❷ Take out the release film
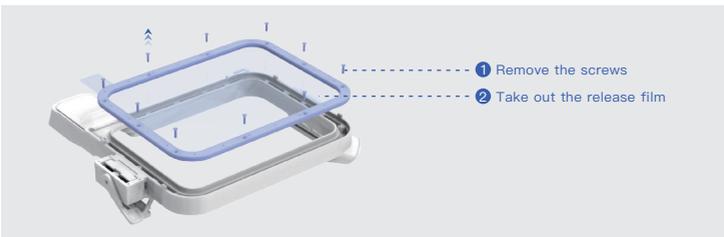
Install the new release film into the resin tank in the same position and re-lock the removed screws to the original holes. Reinstall the resin tank according to the guidelines.

❶ Install the new release film

❷ Re-lock the screws

❸ Apply the film life detection label to the resin tank
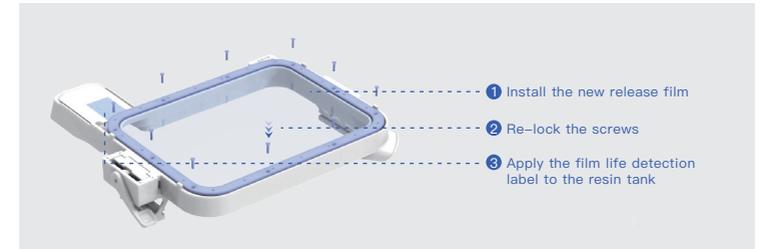
6 Cautions

01

Please close the hood in time after installing or removing the platform and resin tank to avoid dust entering the printing area.

02

Before removing the resin tank or resin bottle, please press down the suspension button to stuck the resin bottle and wait for several minutes until the resin stops drippong.

03

It is recommended to store the resin tank and release film spare module in a dust-proof place and keep the temperature between 20~25℃.

04

Please avoid contaminating the liquid level sensor power supply with resin.

05

Please clean the liquid level and temperature sensor probes when changing the material; Not to invert the sensor when the probes are covered with resin.