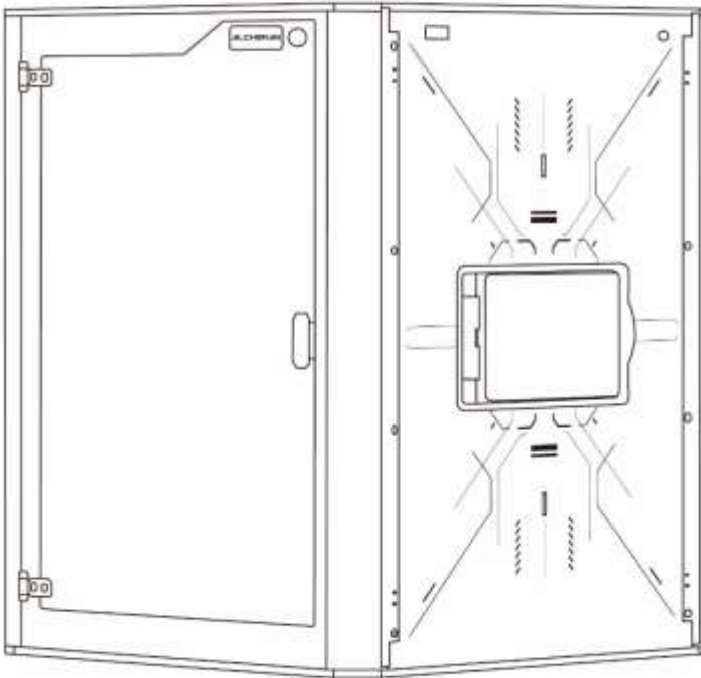# ELYARCHI

Alcheman 3D Printer
User Manual

Important: Please read this manual before operating your 3D printer and keep it for future reference.

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Touchscreen

HEPA Filter

Back of the Alcheman 3D printer

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Ethernet Port

Power Socket
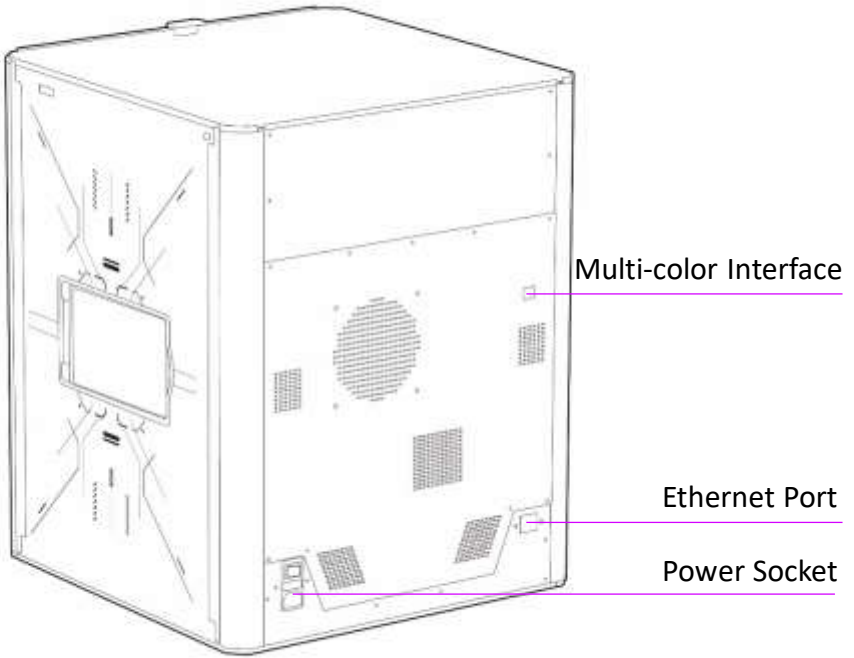
Alcheman's photo

It is recommended to follow these steps to complete the unboxing

1. Take out protective foam from the top of the packaging and lay it flat on the desktop

2. Remove the protective foam around the printer, then take out the printer

3. Put the printer on the protective foam

It is recommended to follow these steps to complete the unboxing

4. Hang the top glass cover plate on the left side of the printer

5. Take out the protective foam and all accessories

6. Unlock the toolhead

Check the accessories before starting

Hex Keys

M5-M6 Wrench

0.4mm/0.6mm Nozzle x1

Flexible PEI Plate

Glue

8GB USB Stick

Check the accessories before starting

Filter Element

Brush for cleaning nozzle

Plier

2.5mm Screws x5

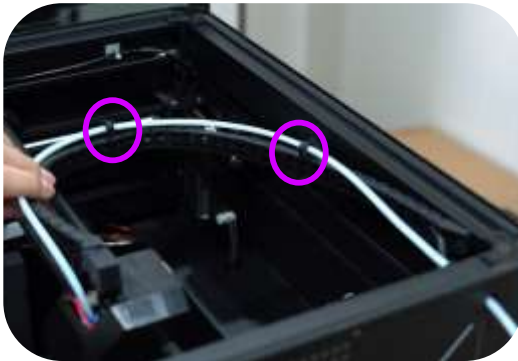PLA 1.75mm 1KG x1

Scraper x3

Hotend

Install the PTFE tube

1. Take out PTFE tube

2. Insert PTFE tube into the feeder

3. Connect the PTFE tube and
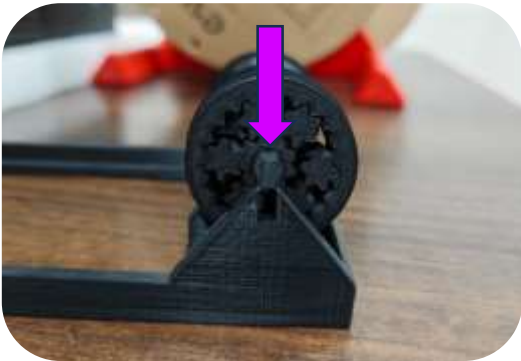tank chain using 2 fixing clips

Assemble the spool holder

1. Take out spool holder

2. Please assemble the accessories following the steps below
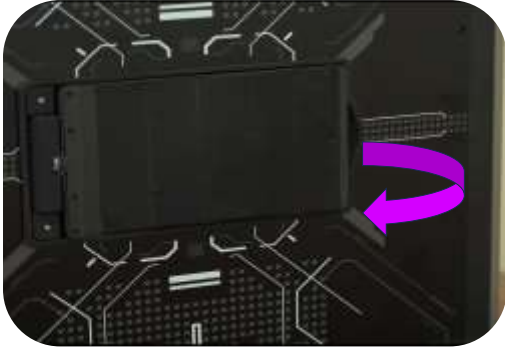

3. Insert the gear ends into the grooves
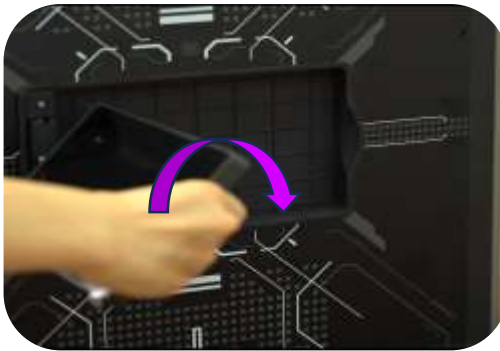

4. Complete assembly

Screen Settings: The screen is located on the right side of the printer

1. Lift the screen from the notch   2. Screen folds to 90 degrees

3. The screen can be rotated 0 to
180 degrees clockwise for
optimal operating position

Plug in the power cable and press the power button to start

To connect to the network, you can use one of the following methods

1. Wired Connection: Plug in a network cable.

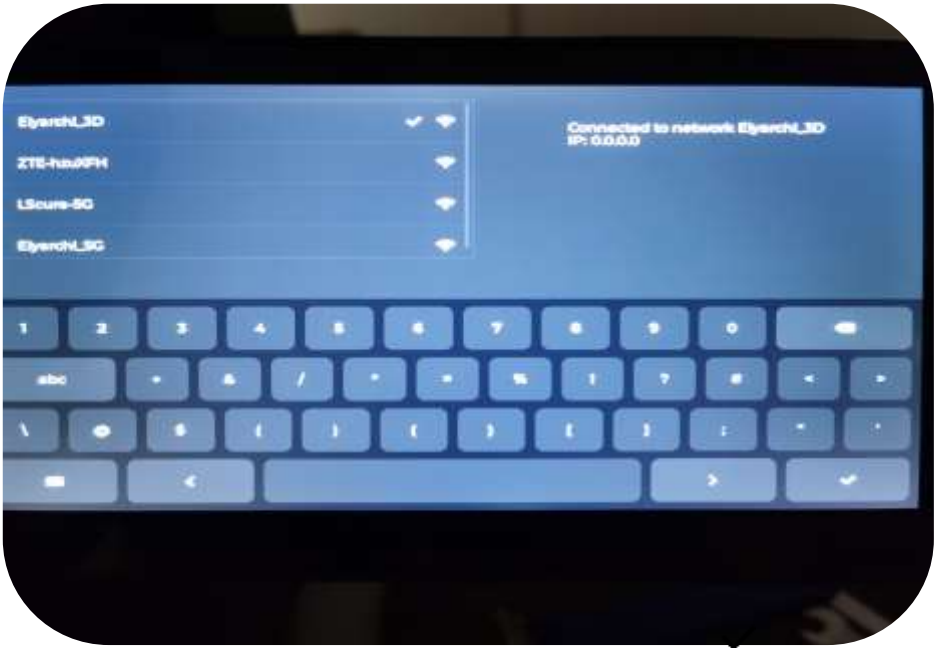2. Wireless Connection: Connect to the Wi-Fi network.

Go to the Setting page, and tap the "WiFi" tab

Choose your Wi-Fi network, enter the password, and tap

2. Wireless Connection: Connect to the Wi-Fi network.

You are now connected to the network

Network connectivity issues:
First, check the printer's network settings for proper configuration. If it's difficult to move the router or the printer, you can create a Wi-Fi hotspot using your mobile phone and connect the printer to it. If the network connection doesn't work, use the USB flash drive we provide to transfer the sliced files directly to the printer.
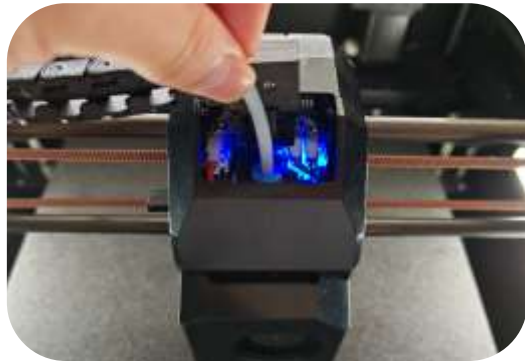
Insert filament

1. Place filament on spool holder

2. Insert filament into the feeder

3. Until it passes through the PTFE tube and reaches the other end to ensure smooth delivery

4. Insert the other end of the tube gently into the extruder

Download slicing software

Our slicing software is still a work in progress, so we suggest you use Orca Slicer for your 3D prints. Orca has great features and is super stable, so you'll get the best print results. Thanks for your patience!

https://orcaslicer.net/#download-orca-slicer

1. Completing the slice installation

2. Plug the USB flash drive you received into your computer and instantly get the perfect print parameters. These configuration parameters are derived from thousands of hours of testing by our experts and users across various vertical fields, masterfully handling a wide range of materials.
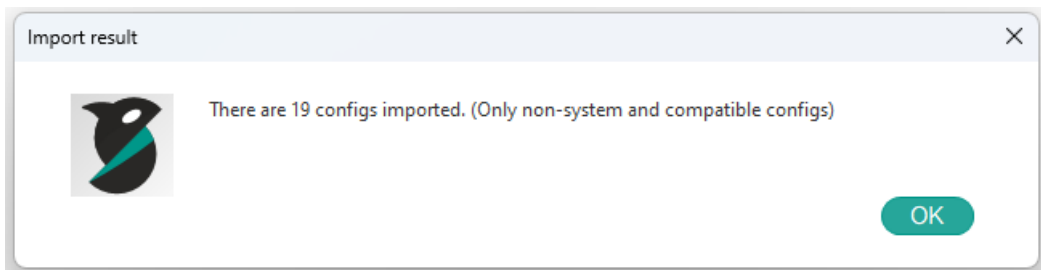

3. Click 【Import】- 【Import Configs】
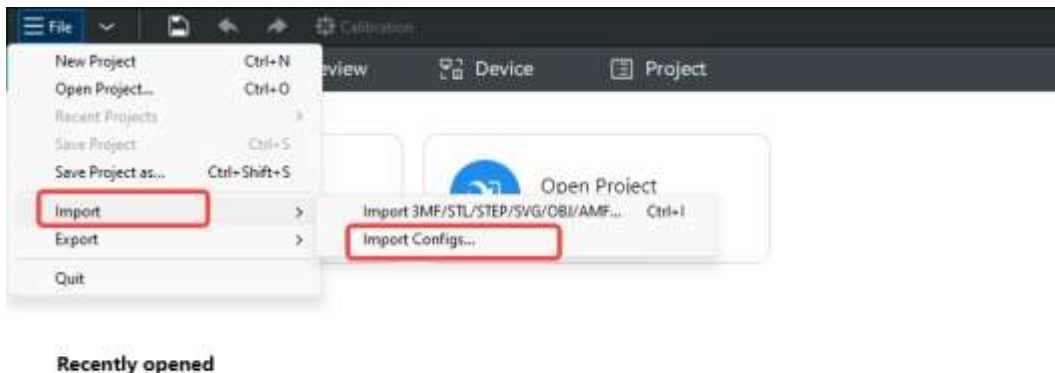
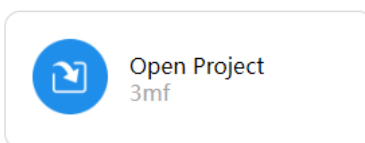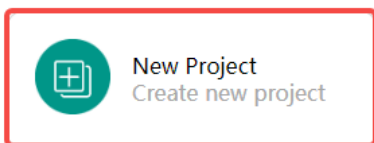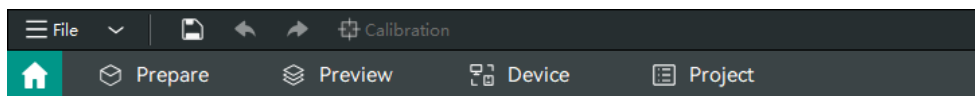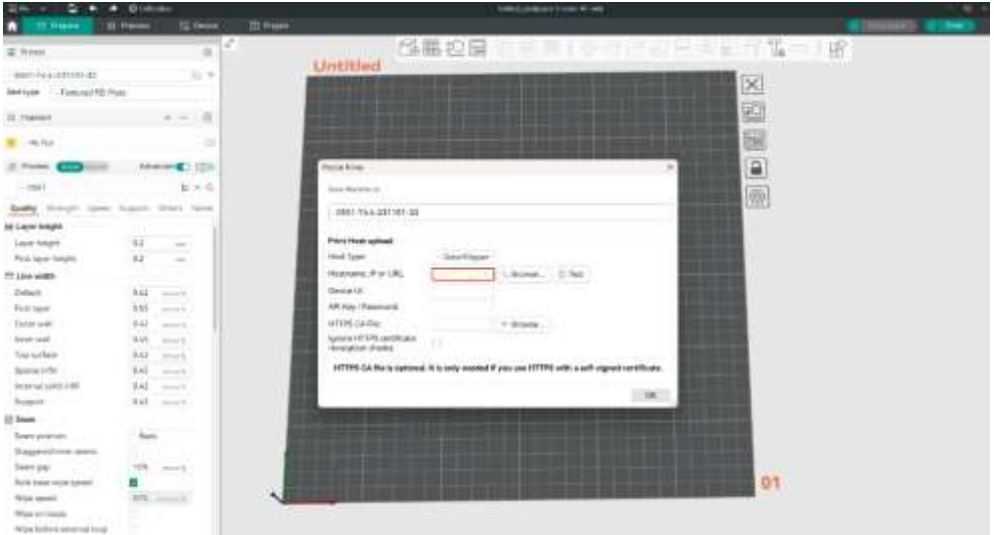## 4. Import the following configs into the slice
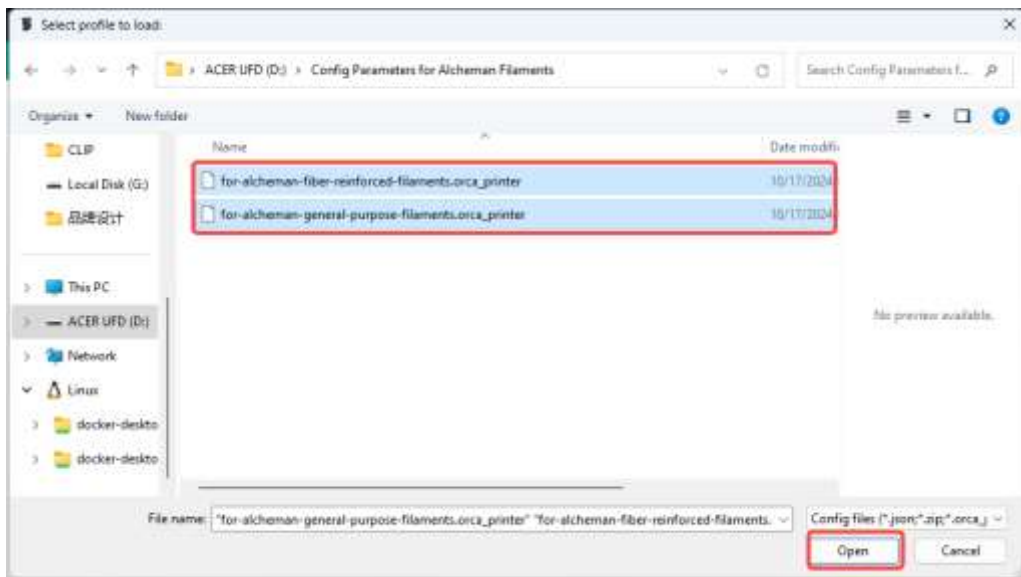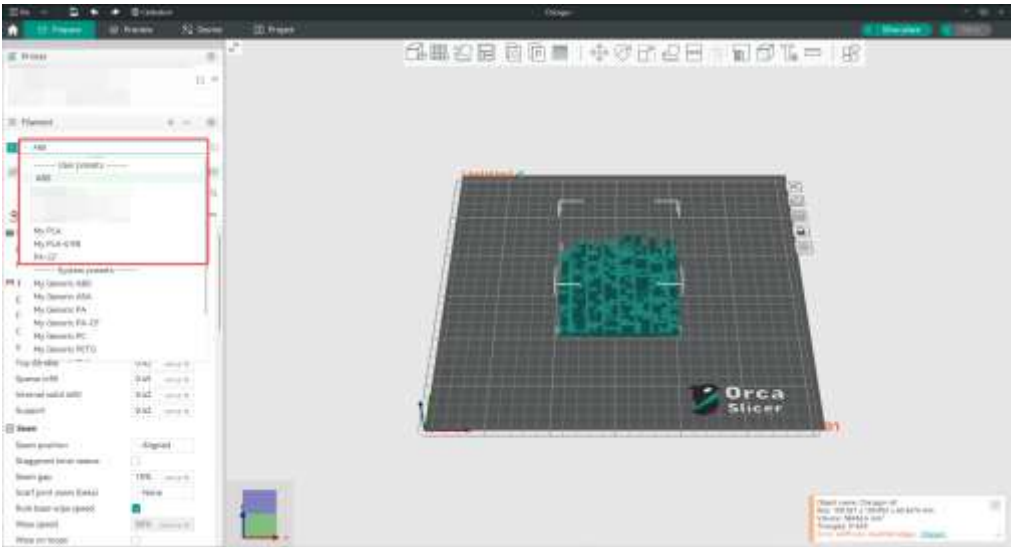

5. Complete the import

6. Click New Project
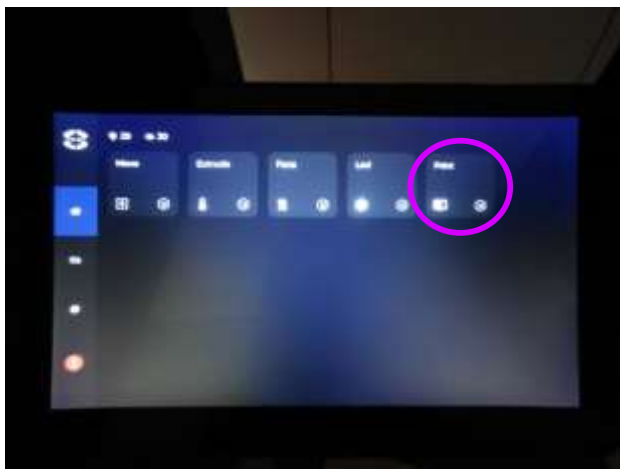
7. Click 📶 Fill in your Hostname, IP or URL

8. Please import the file, and then select the corresponding configuration according to the print filaments
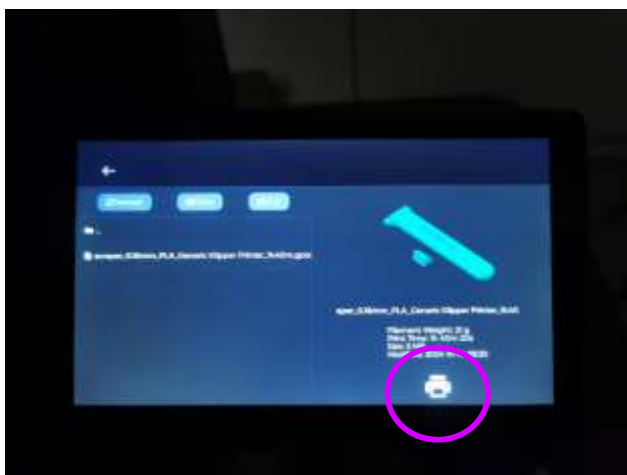

9. Finish slicing and start printing

Printing a pre-loaded file

1. Touch the print icon

2. Touch the print button to start the print

Specifications

> ⚠️ **Warning**
>
> Please be advised that when printing PEEK, it is essential to replace the special high-temperature hotend included in the package. This will guarantee optimal print quality and ensure the safety of the printing equipment.

Components	Type	Parameter
Body	Build Volume	300 x 300 x 300 mm
	Chassis	Steel
	Shell	Aviation Aluminum Alloy
Tool Head	Hot End	Ceramic
	Extruder Gears	Metal & Nylon
	Nozzle	Brass
	Max Hot End Temperature	450℃
	Nozzle Diameter (Included)	0.4mm
Hot Bed	Build Plate	Flexible Steel Plate
Supported Filament	-	• Industrial Grade: PEEK、PPS、PEI, etc. • Engineering Grade: PC、PA、ABS, etc. • General Purpose: PLA、PLA+、PETG、TPU, etc.
Speed	Max Speed of Tool Head	500 mm/s
	Max Acceleration of Tool Head	20000 mm/s²
Cavity Temperature Control	Active Chamber Temperature Control	✓
	Maximum Controllable Chamber Temperature	90℃
Air Purification	Particulate Matter Filtration	✓

Specifications

Components	Type	Parameter
Sensors	Temperature Sensor	✓
	Acceleration Sensor	✓
	Electromagnetic Sensor	✓
	Pressure Sensor	✓
Cooling	Part Cooling Fan	✓
	Hotend Fan	✓
	Control Board Fan	✓
	Internal Circulation Fans	✓
	Chamber Temperature Regulator Fan	✓
	Air Filter	HEPA
Power Requirements	Voltage	18V
	Maximum Power	350W
Electronic Component	Display	7 Inches
	Storage	16GB
Wi-Fi	Frequency Range	2.4G/5G
	Protocol	IEEE 802.11 b/g/n
Ethernet	Interface	RJ45
	Speed	Gigabit
Physical Dimensions	Dimensions	450 x 450 x 562 mm
	Net Weight	29KG

Contact Us

Support

You can learn about Elyarchi products and services on the following websites: www.elyarchi.com

- Alcheman Support: https://elyarchi.com/alcheman-support/
- Pre-Sales and After-Sales: info@elyarchi.com
- Tech Support: support@elyarchi.com

Get Help and Updates via Social Media

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Visit our official website to download the electronic version of the user manual and easily access detailed product information and operation guides.
https://www.elyarchi.com/manual/