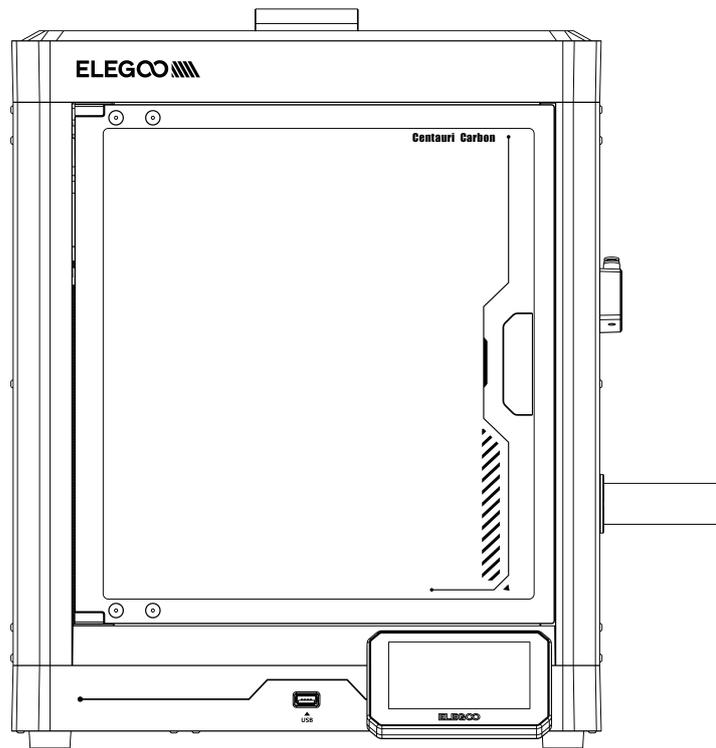




Centauri Carbon 3D Printer



User Manual

- Please refer to the included USB drive for a setup and installation instructional video.

V1.0

Thank you for choosing the ELEGOO Product!

This User Manual has been provided for your convenience. Please read this instruction manual carefully before using your new printer, as the precautions, information, and tips can better help you to avoid the risk of incorrect product setup and usage.

For any questions or issues not covered in this manual, please contact us directly via our customer support email address: 3dp@elegoo.com. The ELEGOO team is always ready to provide you with quality service.

To provide you with the best product experience, in addition to this manual, you can find supplemental information for the operation of your new printer via:

- 1.The USB Drive: The digital files include a copy of this manual and all required software.
- 2.The ELEGOO official website: www.elegoo.com for related equipment operation, contact information, etc.

NOTES

1. Do not place the printer in highly vibrating or unstable environment, as machine vibrations can affect print quality.
2. Do not touch the nozzle or heated bed while the printer is in operation to avoid burns and personal injury from high temperatures.
3. After printing, promptly utilize the residual heat in the nozzle to effectively clean the filament residue using a suitable tool. Avoid direct contact with the nozzle to prevent potential burns.
4. When printing low-temperature filaments such as PLA and flexible filaments, please remove the glass top cover.
5. We recommend using ELEGOO's slicing software to ensure the proper functioning of the machine and achieve optimal printing results.
6. Perform regular maintenance on the printer by cleaning the machine body with a dry cloth to remove dust and any sticky filament residue. Ensure the printer is powered off before cleaning.
7. Be cautious of the machine's high-speed moving parts to avoid any potential pinch hazards.
8. The Z-axis of the machine utilizes lead screws for its moving parts. Apply lubricating oil as needed to ensure smooth movement.
9. Children must be supervised by adults when using the machine to avoid personal injury.
10. In case of an emergency, directly turn off the power.
11. Ensure the machine is properly grounded for safe operation. Failure to properly ground or neglecting to ground the machine can increase the risk of electrical leakage.
12. If the machine is not in use for an extended period, please turn off the power and unplug the power cord.

Contents

Machine Parameters _____	1
Component Introduction _____	2
Accessory Specification _____	3
Machine Setup & Installation _____	4
Screen Operation Instruction _____	6
First Print _____	8
Filament Replacement _____	9
Slicing Software _____	10
LAN (Network) Printing _____	12
Mainboard Circuit Wiring Diagram _____	13

Machine Parameters

Printer Specifications

Printer Type: FDM (Fused Deposition Modeling)

Maximum Build Volume: 256*256*256(mm³)

Print Precision: ±0.1mm

Nozzle Diameter: Standard (0.4mm)

Print Speed: ≤500mm/s

Ambient Environment Temperature: 5°C~40°C

Operating Temperature Specifications

Maximum Temperature of Nozzle: 300°C

Maximum Temperature of Heated Bed: 110°C

Software Specifications

Slicer Software: ELEGOO Slicer (recommended)

Input File Format: STL, OBJ, 3MF, STP

Output File Format: G-code

Interface: USB Drive, WIFI

Power Supply Specifications

Input Power: 100-240V; 50/60Hz

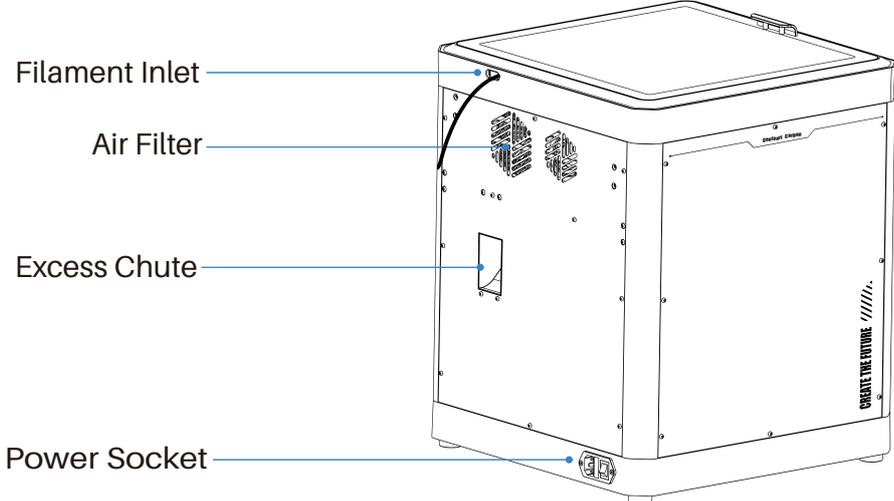
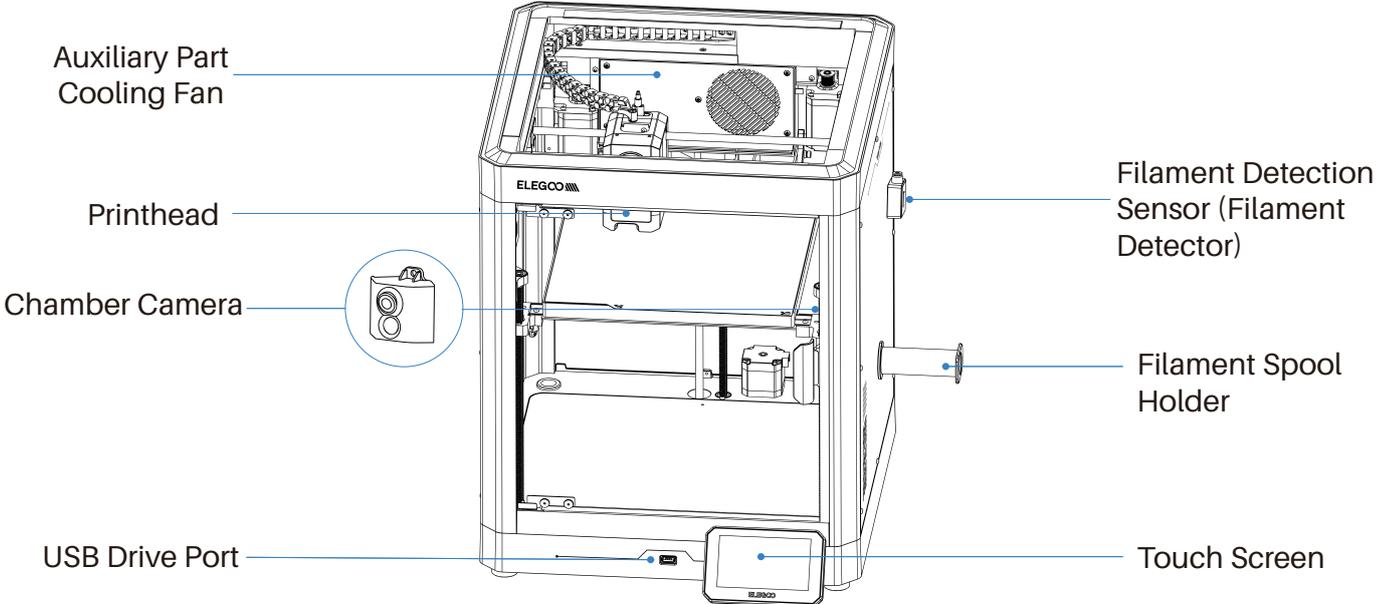
Rated Power: 1100W@220V 350W@110V

Physical Specifications

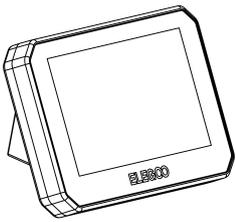
Machine Size: 398*404*490mm

Net Weight: 17.5kg

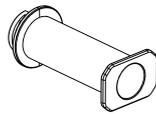
Component Introduction



Accessory Specification



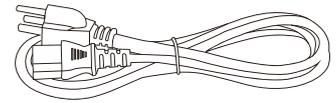
Touch Screen



Spool Holder



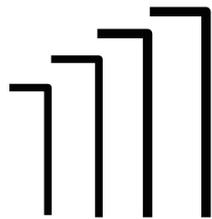
Filament Sample



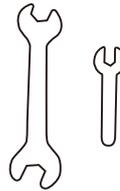
Power Cord



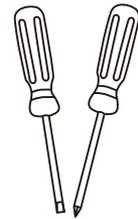
Unclogging
Pin Tool



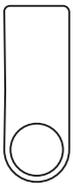
(1.5/2.0/2.5/3.0mm)
Allen Wrench



Open-end Wrench



Screwdriver



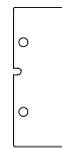
USB Drive



Spare Nozzle



Spare Heatbed
Nozzle Wiper



Scraper Blade

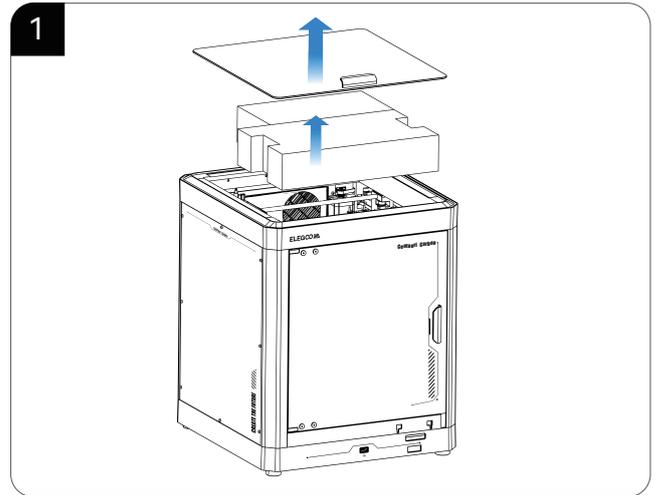


User Manual

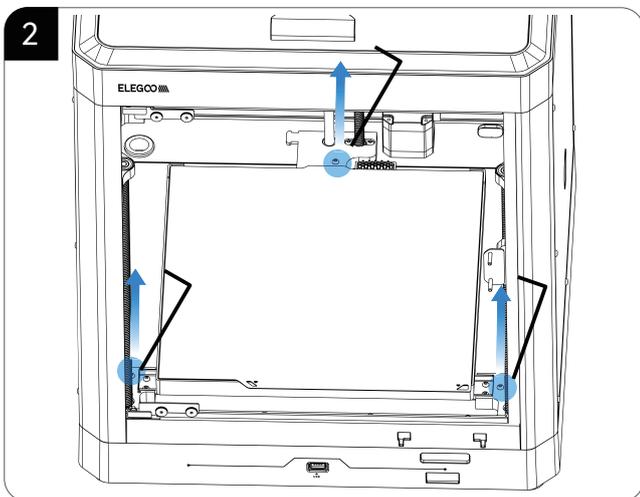
Machine Setup & Installation



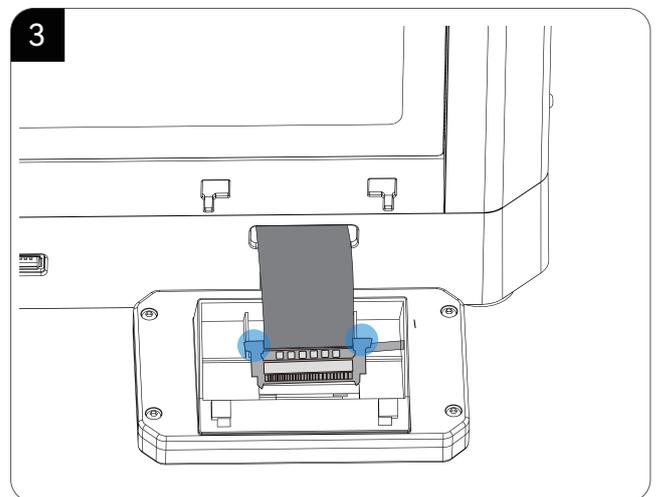
Scan to access tutorials



1. Take out the foam and tool kit from the printer.

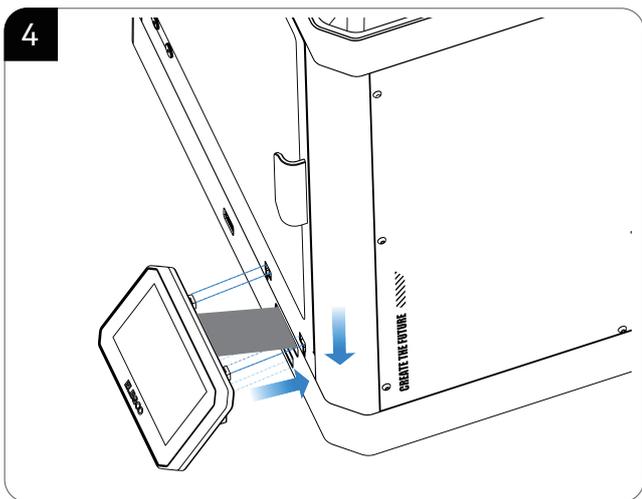


2. Unlock the heated bed and use a 2.0mm Allen wrench to remove the three screws in the picture.

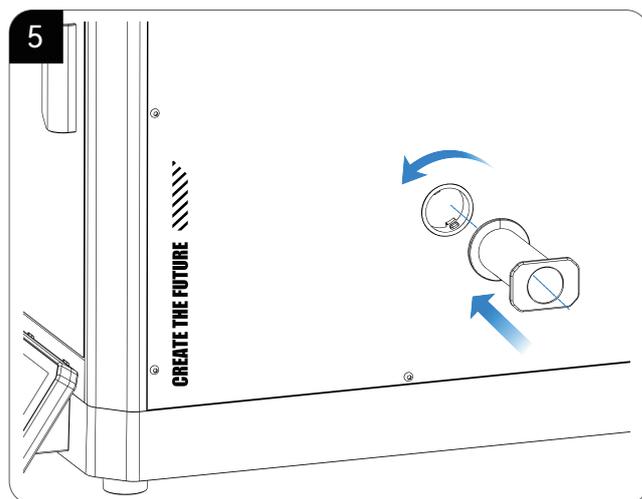


3. Insert the ribbon cable into the port by pressing the terminal as pictured. Make sure the gold contacts on the ribbon cable face upwards.

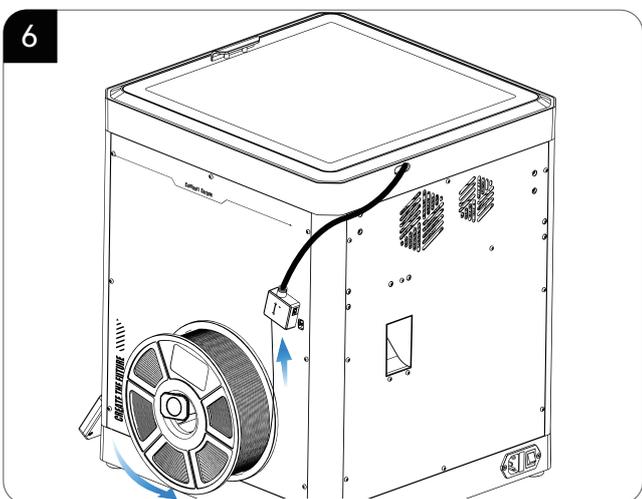
Machine Setup & Installation



4. Install the screen into the corresponding slot on the printer and push it down to lock it in place.



5. Mount the spool holder onto the hole on the right side of the machine and secure it by turning counterclockwise.



6. Load the filament by inserting one end into the filament detector and pushing it forward until it reaches its maximum position.

Screen Operation Instruction



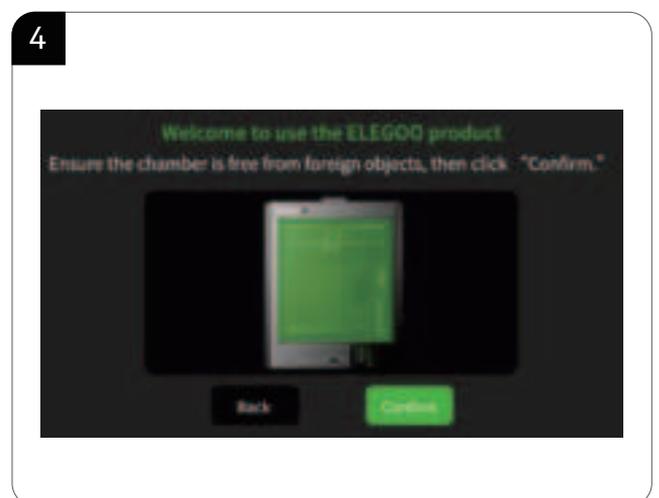
1. Language Selection



2. Follow the on-screen prompt to remove the three fixed screws of the build platform.



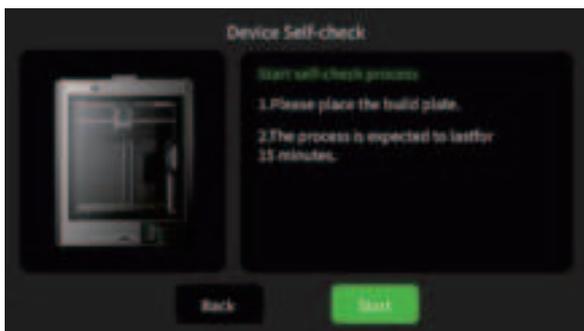
3. Ensure the collision block is correctly installed and click "Confirm."



4. Ensure the printer chamber is free from foreign objects, then click "Confirm" to proceed.

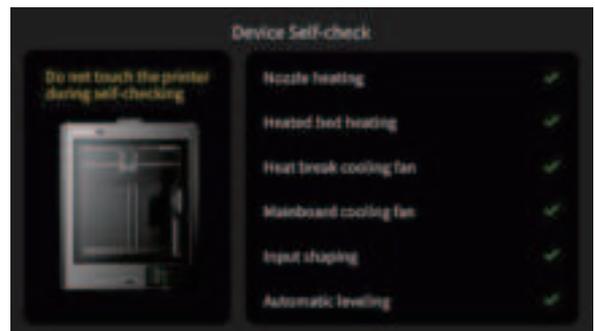
Screen Operation Instruction

5



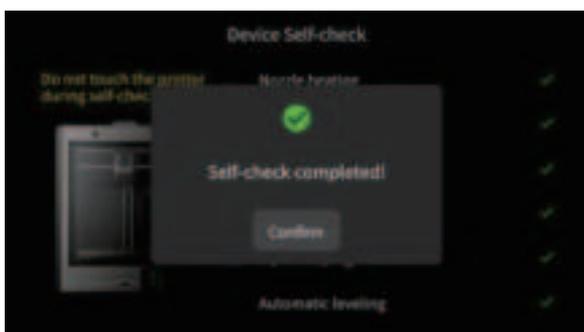
5. Enter the initial self-check process. Vibrations and noises during the self-check are normal.

6



6. Do not tap or shake the machine during the self-check process to avoid error prompts.

7



7. Self-check completed. Click "Confirm" to proceed.



Important note: If you have disassembled machine components such as the nozzle assembly or build platform, make sure to re-level the platform before printing.

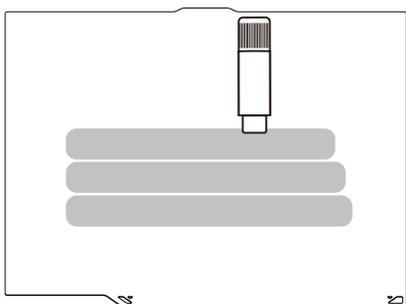
First Print

1



1. Click - to set the nozzle temperature to the suitable temperature for the filament (e.g., 220°C for PLA). Wait for the temperature to reach the set value, then click repeatedly until the filament starts extruding from the nozzle.

3



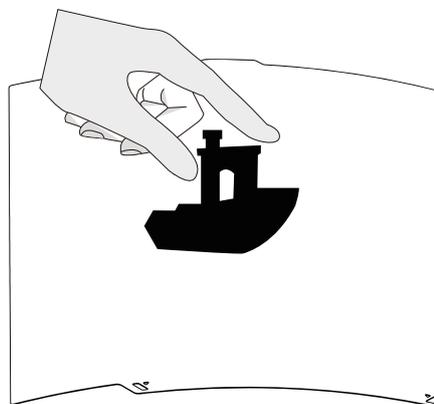
3. If the adhesion of the build plate decreases after prolonged use, you can apply solid glue or use platform adhesive spray to enhance the first-layer adhesion of the model, or replace the build plate.

2



2. Click - **Local** to select a model for test printing.

4

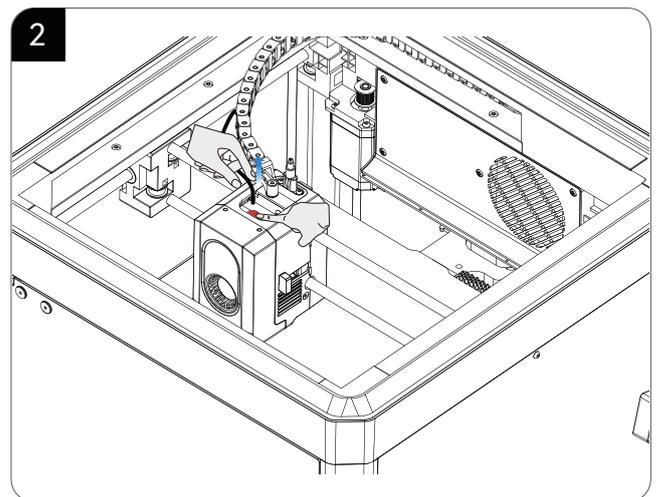


4. After the printed model cools down, detach the flexible build plate together with the model from the device. Bend the plate slightly to separate the model from it (avoid overbending to prevent deformation).

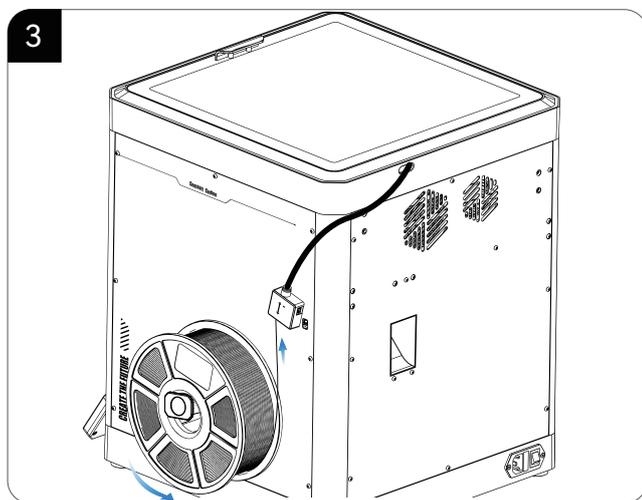
Filament Replacement



1. Click  and switch to the Extruder option. Click "Unload" and wait for the machine to complete the unloading process.



2. After unloading is complete, press the pneumatic connector above the printhead to detach the filament guide tube. Extract the old filament from the tube and replace it with a new one.



3. Load the filament by inserting one end into the filament detector and pushing it forward until it reaches its maximum position.



4. Click "Load" and wait for the nozzle to heat up. Once the nozzle reaches the preset temperature (e.g., 220°C for PLA), it will start the filament loading process.

Slicing Software

The included USB drive contains slicing software for installation and use.

* Select your printer model before starting the slicing process.



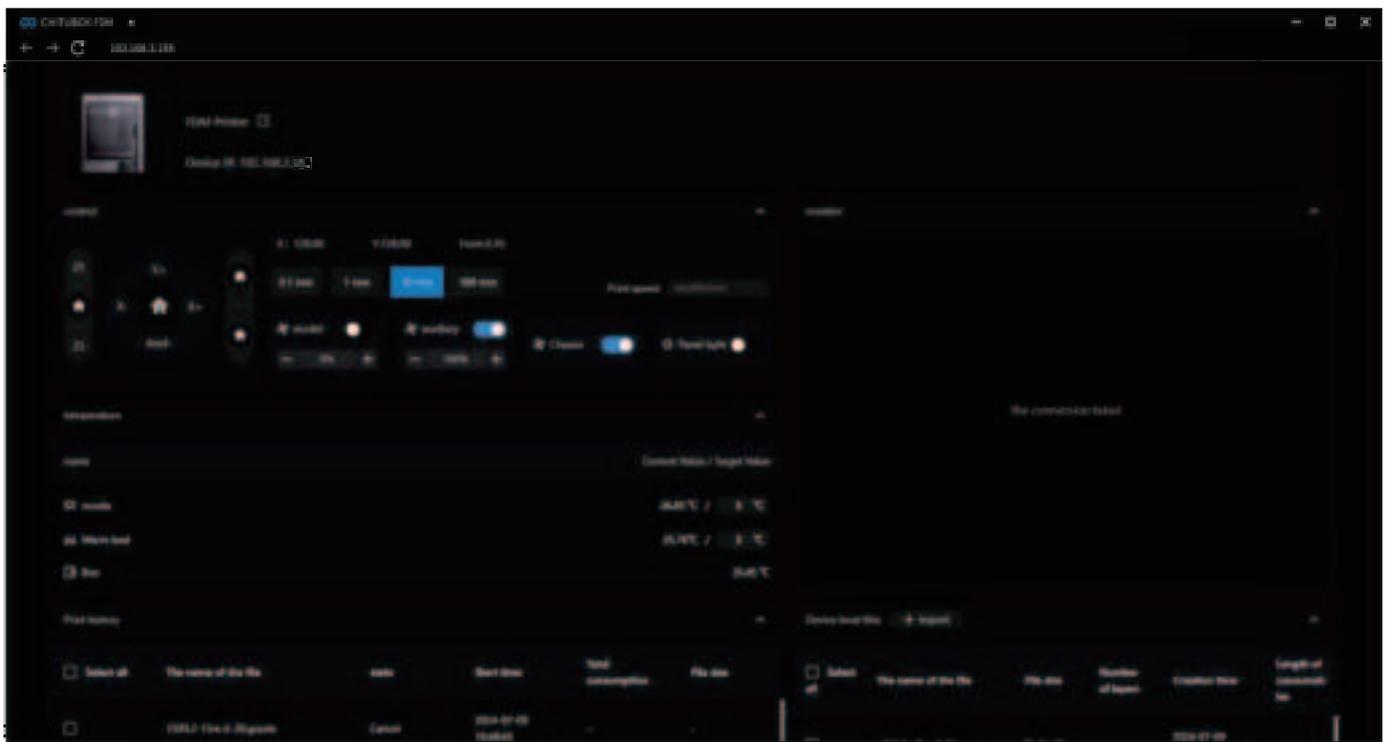
LAN (Network) Printing

1. The device supports Wi-Fi connection. Go to the "Network" interface, establish a successful connection, and check the IP address on the screen (refer to the image on the right).



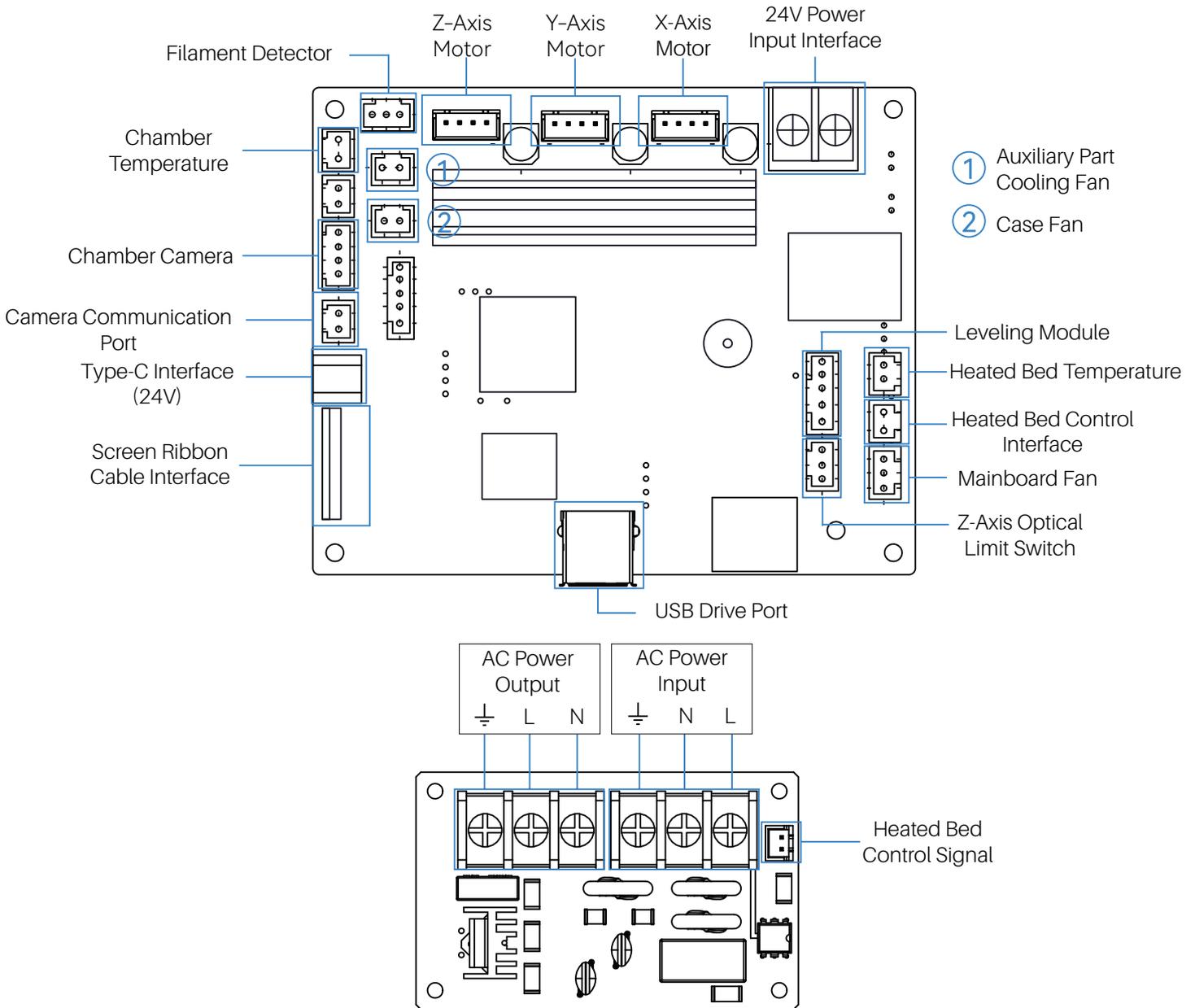
2. Connect your computer and printer to the same local area network (LAN). Open your browser and enter the printer's IP address in the address bar to access the backend management. Utilize the web interface to monitor the printing progress and pause/stop the print as needed.

*Upload G-code files for printing.



Mainboard Circuit Wiring Diagram

! Type-C Interface (24V): It is strictly prohibited to directly connect this port to a computer or external devices, as it may result in damage.



After-sales service registration card

Date of purchase: _____

Place of purchase: _____

Printer: _____

S/N: _____

Fault description:

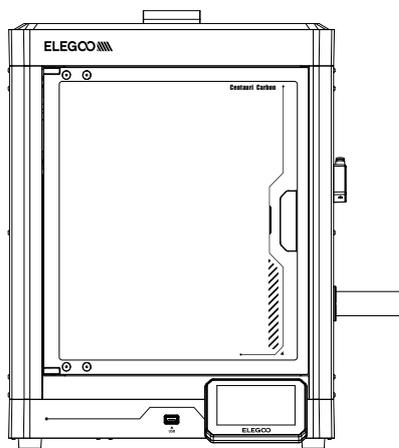
Contact: _____

Address: _____

Phone number: _____



ELEGOO



ELEGOO official website: www.elegoo.com

Happy Printing!

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.

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.