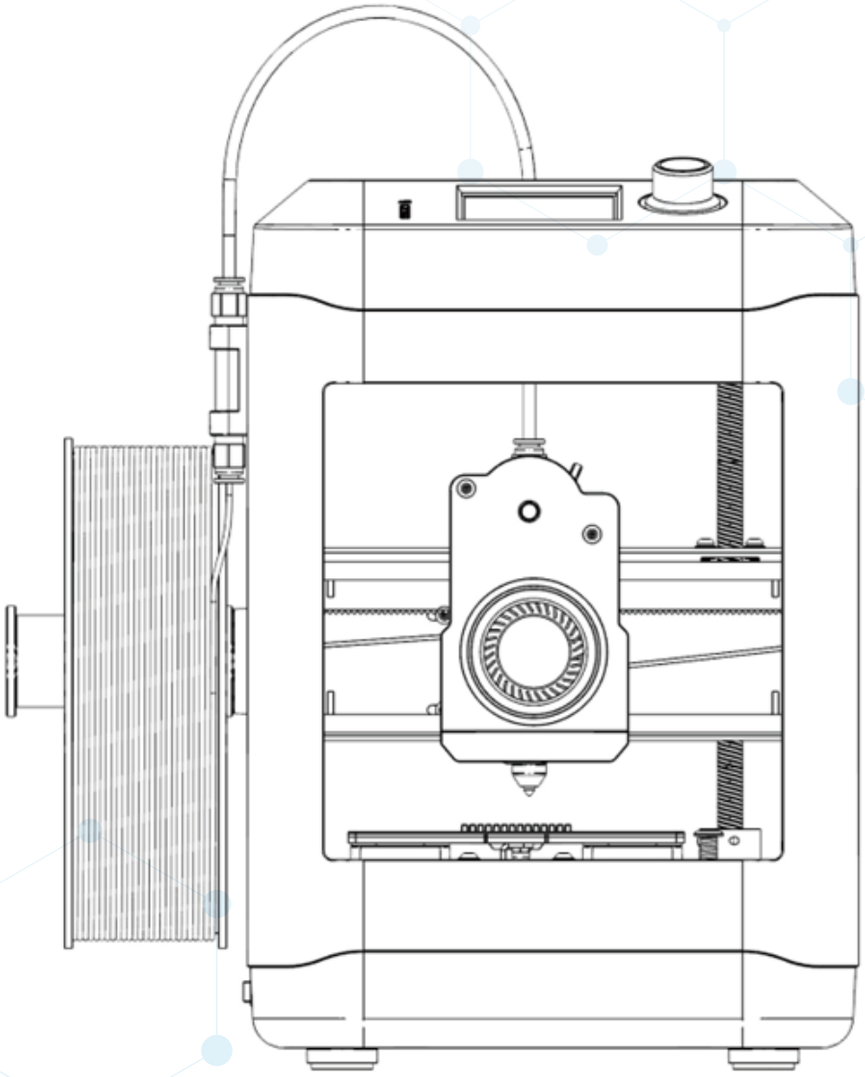
# M1S 3D Printer

## Quick Start Guide



www.geeetech.com

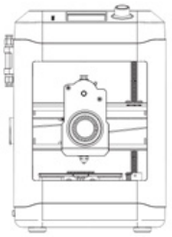
## 1. Kind Reminder

01. For optimal use of this product, please read this manual carefully and follow the instructions strictly. In the attached MicroSD, we provide electronic version user manual, model slicing software, test models, Instructional Video, etc. Please back up the files in the MicroSD to your computer.
02. If you encounter any problems while using M1S , please contact us through the after-sales methods provided in this user manual. GEEEETECH technical support will provide you with high-quality after-sales service.
03. You can also log on to the Geeetech official website ( www.geeetech.com ) to Check the usage instructions for this product, the latest firmware and other information.

## 2. Instructions for Use

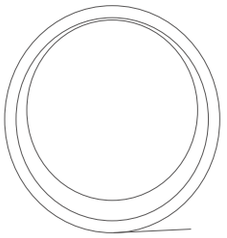
01. Please use this product in a spacious, flat and ventilated environment. Do not use this product in an environment with flammable or explosive materials.
02. Children and untrained persons are not allowed to use this product alone to avoid personal injury.
03. Do not touch the moving parts while the printer is running to avoid pinching your fingers.
04. Do not touch the stepper motor, nozzle and hot bed when the printer is working to avoid burns.
05. Please use this product in an environment of 10 ~ 40 ℃ , otherwise it may have an adverse effect on the printing quality.
06. Please use a 24V power adapter to power this product, otherwise it will cause damage to the product;All M1S printers are tested before shipment. Residual filament in the nozzle or slight scratches on the printing bed are normal and do not affect functionality.
07. Please level the hot bed when using this product for the first time, otherwise this product will refuse to print the model.
08. This product has been tested for printing before leaving the factory. If there is consumables residue in the nozzle of the device or slight scratches on the printing platform, it is normal and will not affect the use.
09. The actual product may be slightly different from this document, please refer to the actual product.

## 3. Packing List

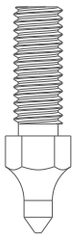


M1S 3D Printer*1


User Manual *1

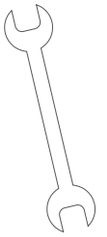


Filament *1

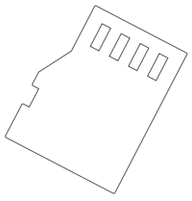


Nozzle*1

L-Shaped Hex Wrench*1



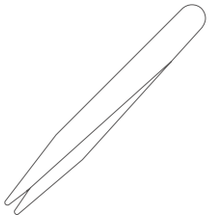
Wrench*1



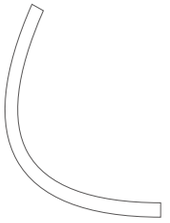
Micro SD*1

Spool holder*1

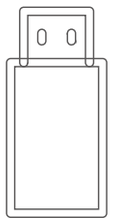
Needle*1



Tweezers*1



Teflon tube*1



Micro SD Card Reader*1

## 4. Product Unpacking and Assembly

01. First, take the M1S out of the packaging box, remove the dust bag on the M1, and place the M1S on a flat workbench.
02. Check whether the M1S shell is cracked, whether the internal structure is damaged, and whether the accessories are missing. If the machine is damaged or accessories are missing, please contact GEEETECH after-sales service.
03. Cut the cable tie that secures the print head. Be careful not to cut the electronic wire by mistake! The position of the cable tie is shown in Figure 1 below.
04. Install the Teflon tube. Please note that the Teflon tube must be inserted to the bottom of the pneumatic joint, otherwise the filament will not be able to pass through the Teflon tube to reach the hot end smoothly. The specific operation is shown in Figures 2 and 3 below.

05. Install the Filament bracket. The filament holder included with the M1S only supports 0.5kg filament. To use 1kg filament, the user must download the 1kg filament holder model from the M1S Wiki page on the Geeetech website or print it via the Geeetech APP.

Installation Method for 0.5kg Filament Holder

a. Combine the two components of the holder.

b. Insert the assembled holder into the mounting hole on the M1S casing.

c. Rotate the holder counterclockwise until it can no longer turn.

d. The filament holder assembly is complete (see Figures 1–4 for detailed steps).

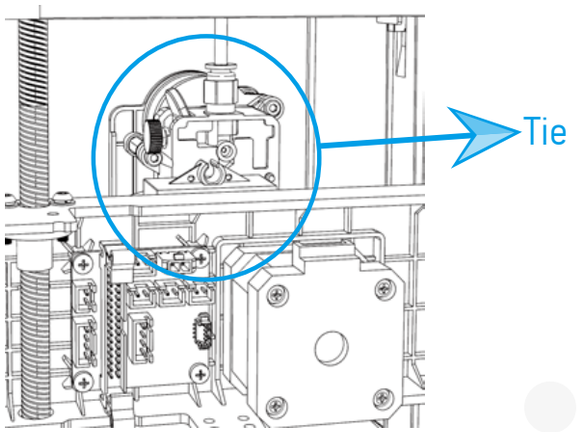



Figure 1

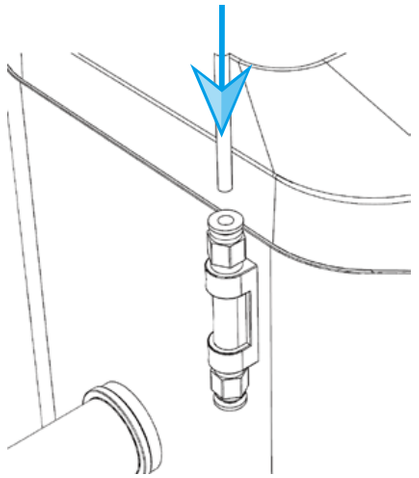


Figure 2

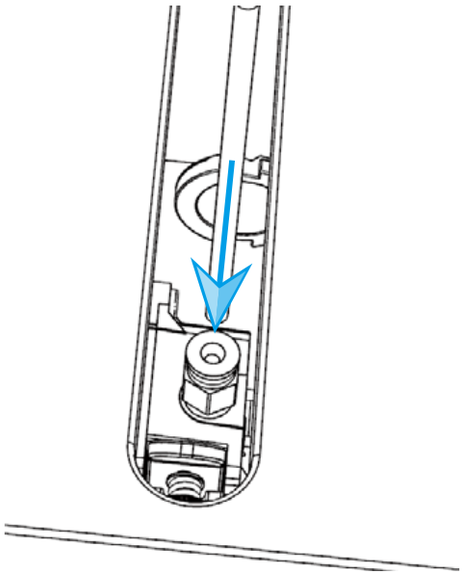


Figure 3

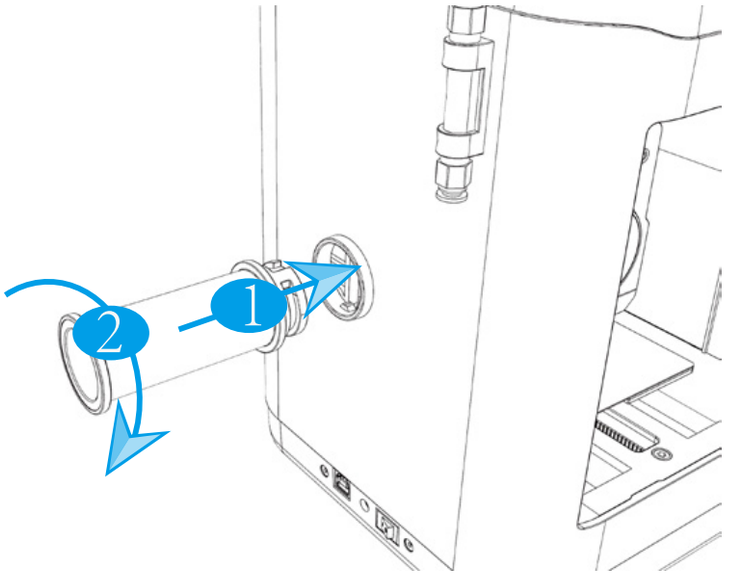



Figure 4

Installation Method for 1kg Filament Holder

a. Combine the two components of the holder.

b. Insert the assembled holder into the mounting hole on the M1S casing.

c. Rotate the holder counterclockwise until it can no longer turn.

d. The filament holder assembly is complete (see Figures 5–9 for detailed steps).

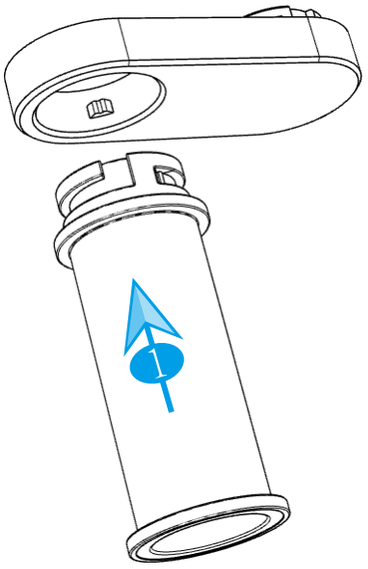



Figure 5

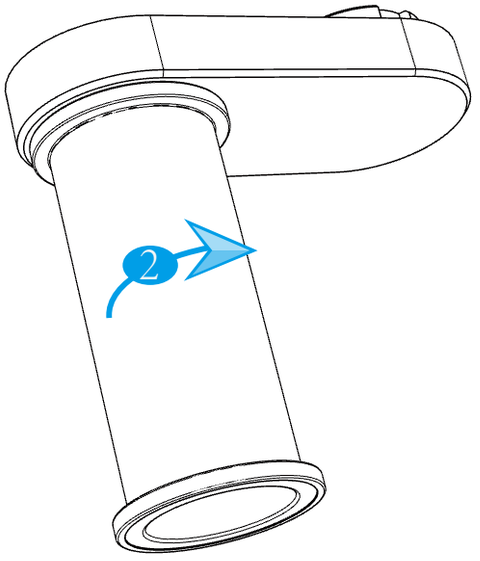



Figure 6

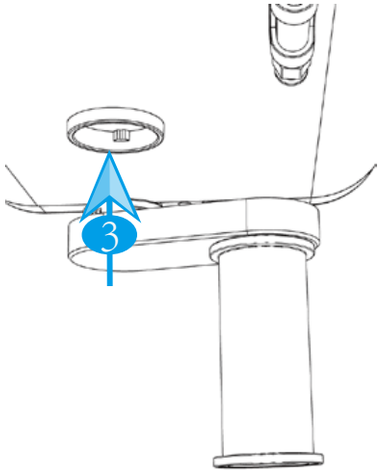



Figure 7

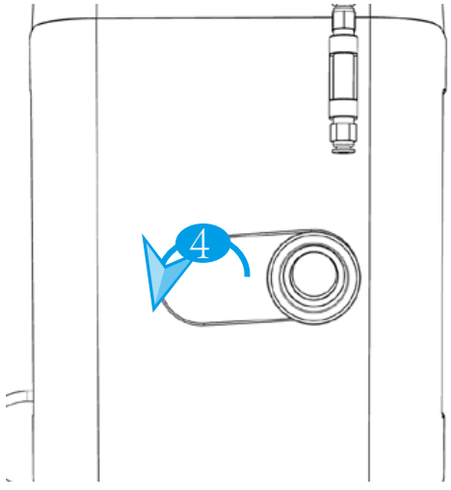



Figure 8

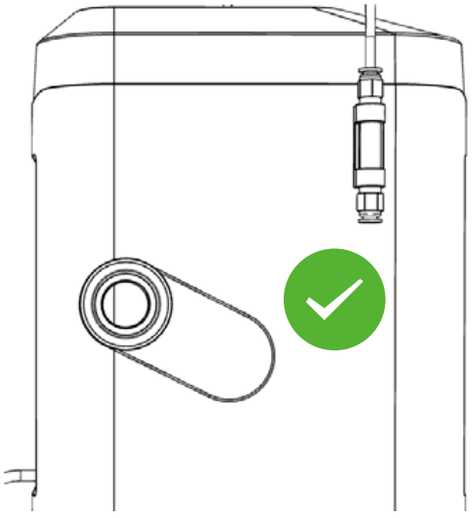


Figure 9

06. Check the belt. If the X-axis or Y-axis belt is too loose, you can adjust the belt tension by moving the X-axis motor or Y-axis motor. First loosen the screws that fix the motor, move the motor to tighten the belt, and then tighten the screws, as shown in Figures 10 and 11 below.

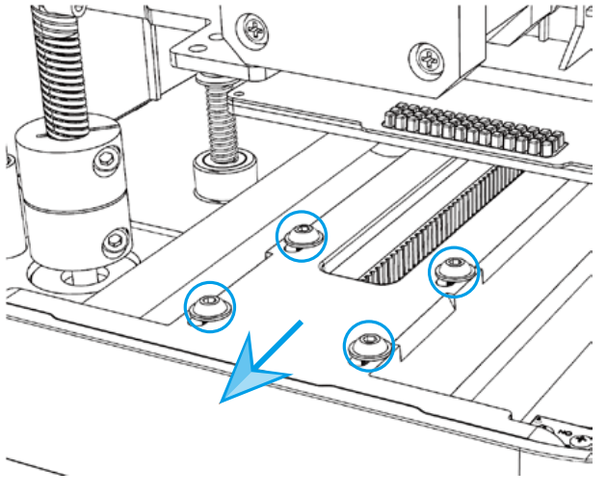


Figure 10

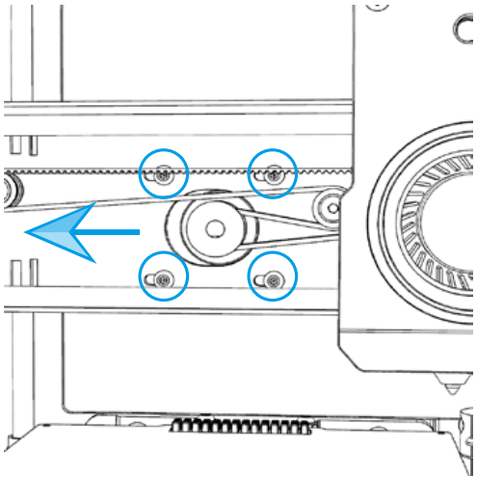


Figure 11

## 5. Power On

01. Insert the power adapter into the power input interface of M1S (Figure 12 below), then power on the power adapter and turn on the power switch of M1S. Then the screen of M1S lights up.
02. At this point the user needs to check whether the content displayed on the screen is normal, whether the light inside the shell is on, and whether the knob can control the screen menu.
03. After the M1S is turned on, the three internal lights will light up. These three lights have three working modes: always on, automatically shut off after a 5-minute countdown, and always off. Users can control their working mode through the screen. The M1S defaults to the 5-minute automatic shut-off mode. In the default mode, if the LED goes out, the user only needs to rotate the knob to light the LED again.

04. M1S is powered by a DC 24V power adapter. Users cannot use power adapters with other voltages, otherwise M1S may not work properly or may be damaged.

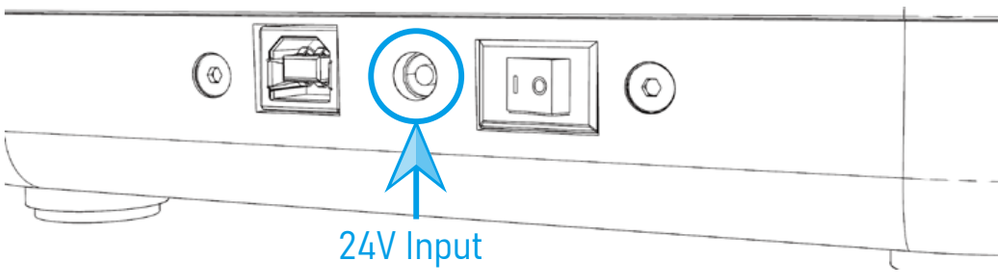



Figure 12

## 6. Hot Bed Leveling

When using M1S for the first time, the user must level the hot bed of M1S. After leveling, there is no need to level the hot bed again unless the filament cannot stick to the PEI steel plate or the nozzle scratches the PEI steel plate in subsequent use.

M1S has two leveling modes: automatic leveling and manual leveling. We recommend the automatic leveling mode. The specific steps are as follows.

01. Power on the M1S and turn it on. Press the knob to enter the M1S screen menu. Then rotate the knob to select the "Prepare" menu and press the knob to enter the next level menu.'
02. Rotate the knob, select the "Auto level " menu, press the knob, and the screen will jump to the home page. At this time, the X-axis, Y-axis, and Z-axis of M1S will perform the homing action, the nozzle will start to heat up, and the screen will display "Cleaning the nozzle" . Please wait patiently for the nozzle to heat up.
03. After the nozzle is heated, the M1S will clean the nozzle (if there is residual filament on the nozzle, you need to use tweezers to clean it off, otherwise it will affect the leveling accuracy).

04. After the nozzle is cleaned, M1S starts to heat the hot bed to 50℃. Please wait patiently.
05. After the hot bed is heated, M1S starts to automatically level. There are 16 leveling test points in total. Please wait patiently.
06. After leveling is completed, the screen will display "GEEETECH M1S Ready". If leveling fails, the screen will prompt "Probing Failed "
07. After the M1S hot bed is leveled, users can start using the M1S to print models.

## 7. Loading Filament

Before starting printing, you must load the filament in advance. M1S only supports filaments with a diameter of 1.75mm. The steps for loading filaments are as follows.

01. Press the knob to enter the M1S screen menu, then select the "Prepare" menu, press the knob to enter the next menu.
02. Select the "Load" menu, press the knob, and then enter the next menu. In this menu, users can select "Preheat PLA" or "Preheat TPU" according to the type of filament used, or select "Preheat Custom" to customize the nozzle temperature.
03. Select "Preheat PLA", and the screen will display "Nozzle heating, Please Wait".
04. After heating is completed, the screen will prompt "Insert filament and Press Button to continue". At this time, you need to insert the filament into the inlet of the material break detection sensor and push the filament into the extruder (as shown in Figure 13 below) until the filament cannot be pushed, then press the knob again, the extruder gear starts to rotate, and make sure the extruder is gripping the filament.
05. When you see melted filament extruded from the nozzle, it means the filament is loaded successfully.
06. Note that when using M1S, make sure to tighten the extruder handle screws, otherwise the extruder's extrusion force will be insufficient. The adjustment method is shown in Figure 14 below.

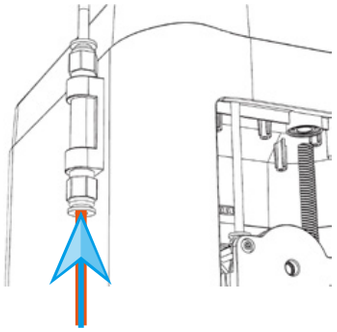


Figure 13

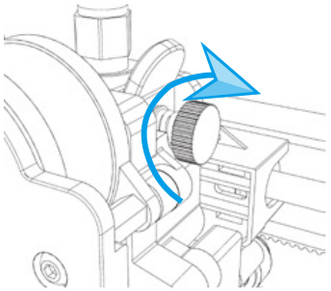


Figure 14

## 8. Start Printing

When the M1S is ready (the hot bed has been leveled and the filament has been pre-loaded), you can print the model by following the steps below.

01. Put the G-code into the Micro SD and then insert it into the card slot of the M1S, as shown in Figure 15 below.
02. Press the knob to enter the main menu, then rotate the knob to select "Print from Media", press the knob again to enter the Micro SD root directory.
03. Rotate the knob to select the G-code file you want to print, press the knob again, and you will be prompted whether to start printing the selected file. At this time, select "Print" and then press the knob to start printing.

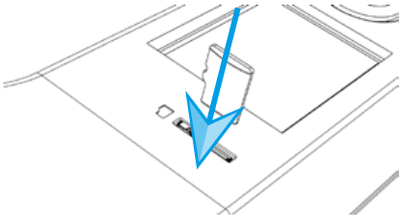


Figure 15

## 9. APP Device Binding

01. Search for and install the Geeetech app from Google Play or the App Store(You can install the software by scanning the APP download QR code on the display,Home screen → WiFi Network → APP Download QR Code → Android QR Code or iOS QR Code), as shown in Figure 16.
02. Open the app, register a Geeetech account, and log in.

Figure 16

03. Tap “Connect My Device” in the app, as shown in Figure 20.

04. Select the M1S model, as shown in Figure 21. The app will navigate to the page shown in Figure 22.

05. Tap “Scan” and allow the app to access the camera.

06. Follow the steps below to locate the device QR code and scan it with the app, as shown in Figures 19.

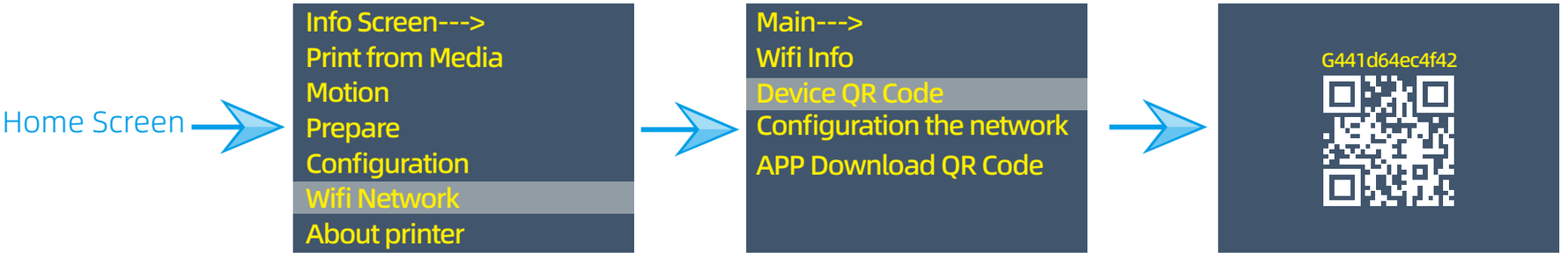



Figure 17 Figure 18 Figure 19

07. Tap the “Bind” button, as shown in Figure 23, to complete the 3D printer binding.

08. Enter the 3D printer name, as shown in Figure 24, then tap “Next” to proceed to the WiFi setup page.

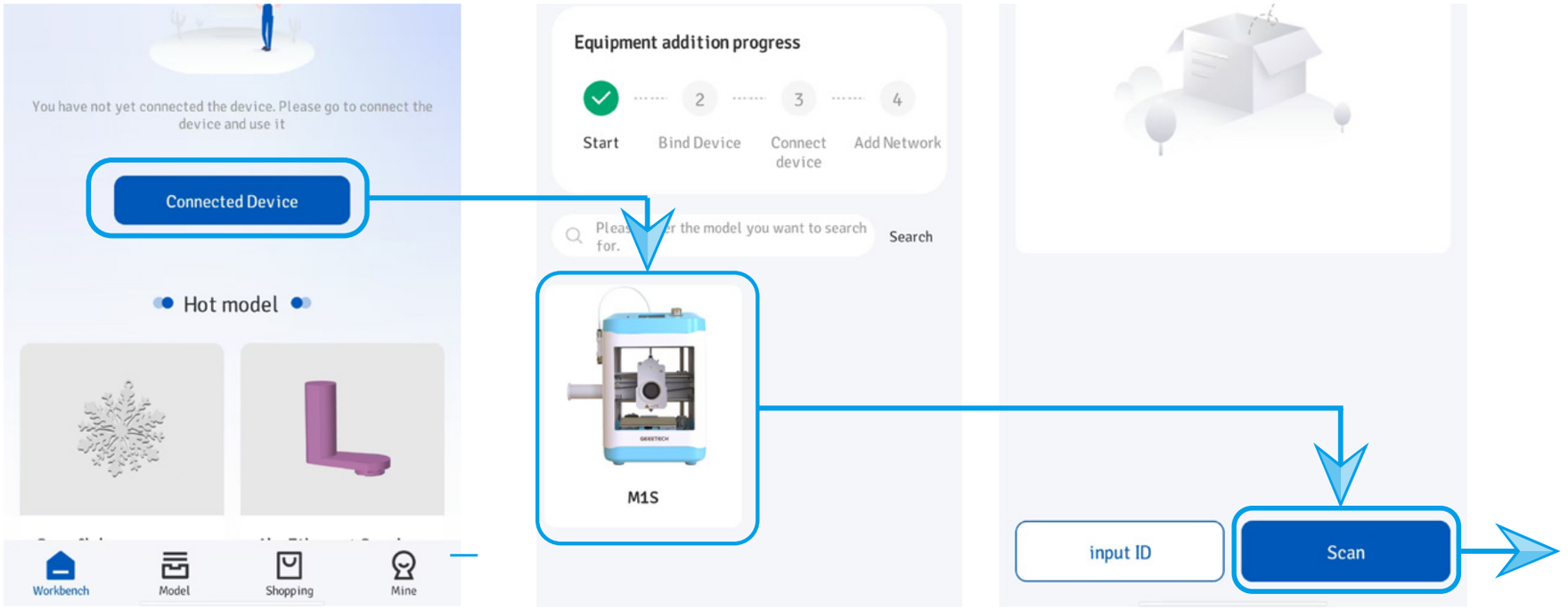



Figure 20 Figure 21 Figure 22


Figure 23

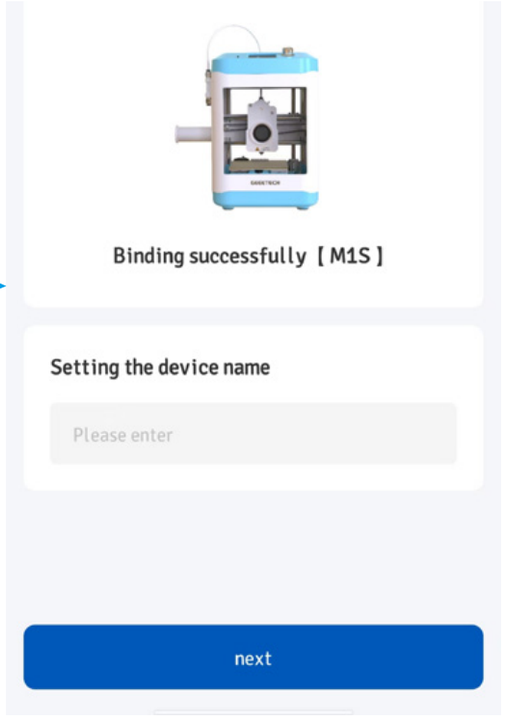



Figure 24

## 10. Wi-Fi Network Configuration

01. Follow the steps below to put the 3D printer into network setup mode, as shown in Figures 25, 26, and 27.

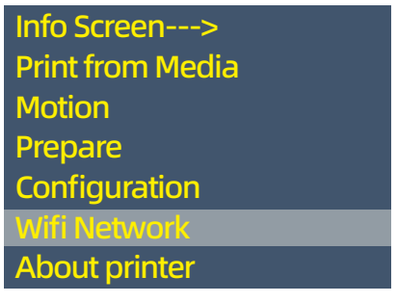




Figure 25

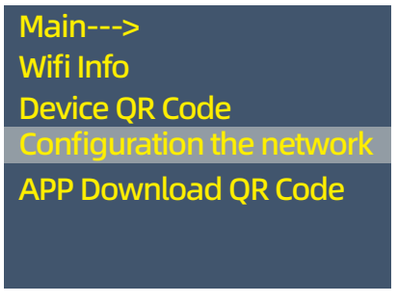



Figure 26

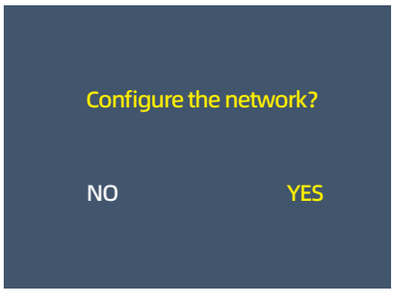



Figure 27

02. Enable Bluetooth and GPS on your phone, then tap “Bluetooth Configuration”, as shown in Figure 28.

03. The app will switch to the next page and display a message: “Searching for device, please wait”, as shown in Figure 29.

04. Once the device is found, the app will automatically enter the WiFi setup page. You can either enter the WiFi name manually or tap the drop-down arrow on the right side of the input box to select from the available WiFi list, as shown in Figure 30.

05. After selecting or entering the WiFi name, enter the correct password and tap “Next”, as shown in Figure 31.

06. Wait a few seconds. The app will then display “Successfully connected to the WiFi device”, as shown in Figure 32.

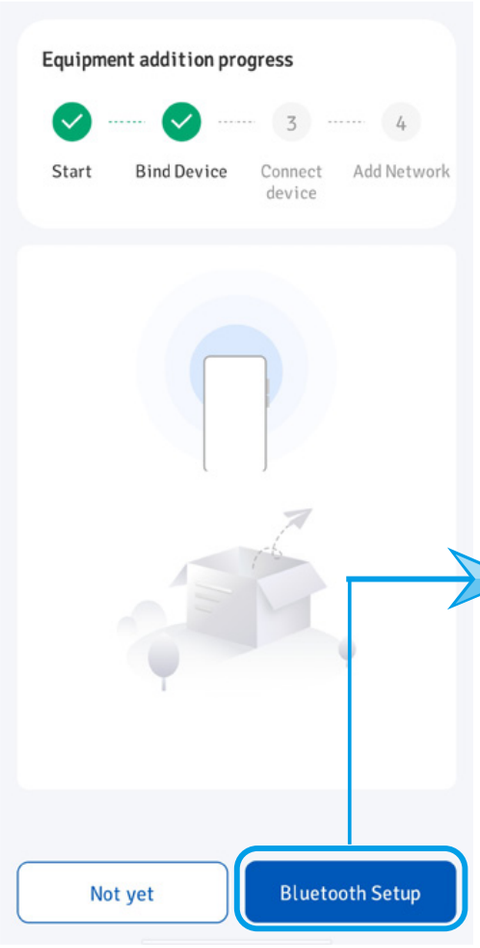



Figure 28

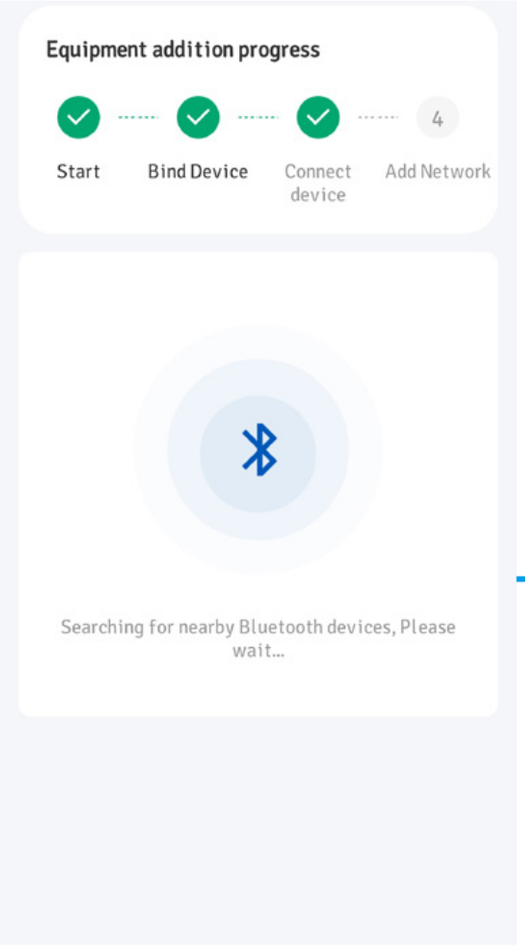



Figure 29

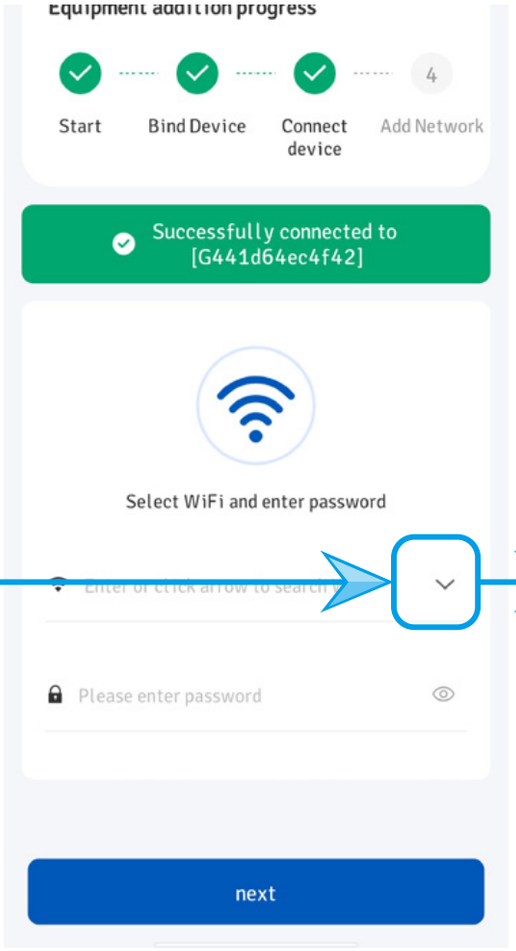



Figure 30

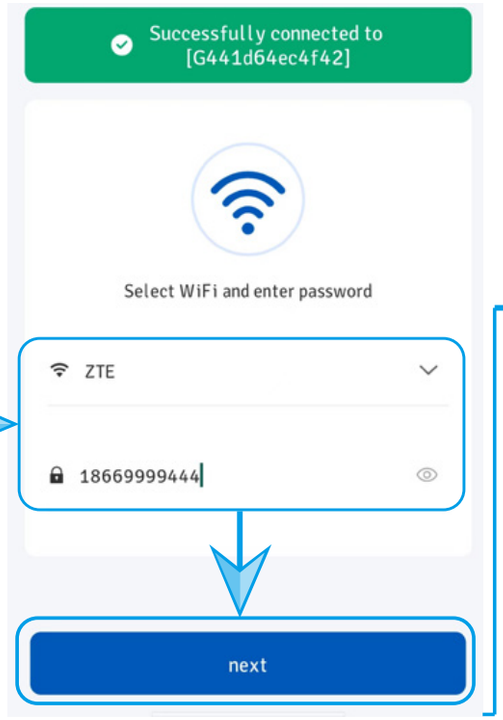



Figure 31

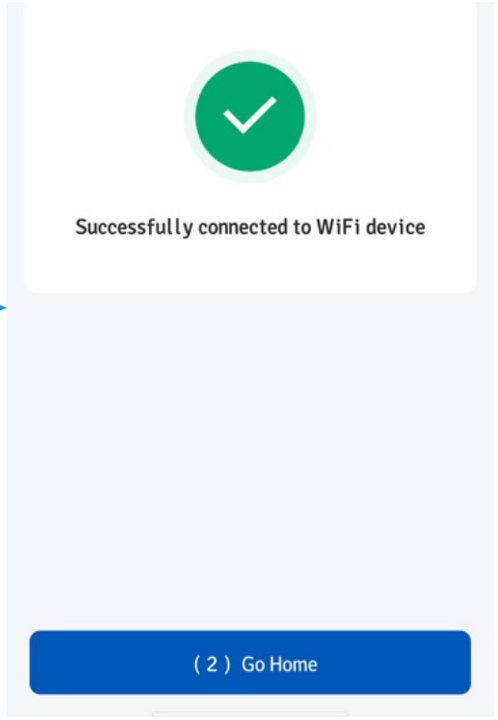



Figure 32

## 11. Wi-Fi Network Configuration

| | | | |
|---|---|---|---|
| Molding Technology | FDM | Power Input | DC 24V |
| Print Layer Height | 0.1~0.2mm | Power adapter power | ⩾96W |
| Print Size | 100*110*100mm | Printing Material | 1.75mm PLA/TPU |
| Printing Speed | ⩽250mm/s | Connectivity | TF Card, USB |
| Printing Accuracy | ±0.1mm | Nozzle Diameter | 0.4mm |
| Slicing Software | Cura, OrcaSlicer | Nozzle Quantity | 1 |
| Maximum Nozzle Temperature | 230℃ | Supported File Format | .Gcode |
| Max Bed Temperature | 60℃ | Environmental Temperature | 10~40℃ |
| Machine Size | 279(L)*200(W)*298(H)mm | Packing Size | 257(L)*270(W)*405(H)mm |
| Machine Net Weight | 3kg | Gross weight | 4kg |

## 12. Contact Us

After-sales E-mail: support@geeetech.com

Technical support: https://www.geeetech.com/contactus.html

Technical support

GEEETECH M1S Wiki

Made in China