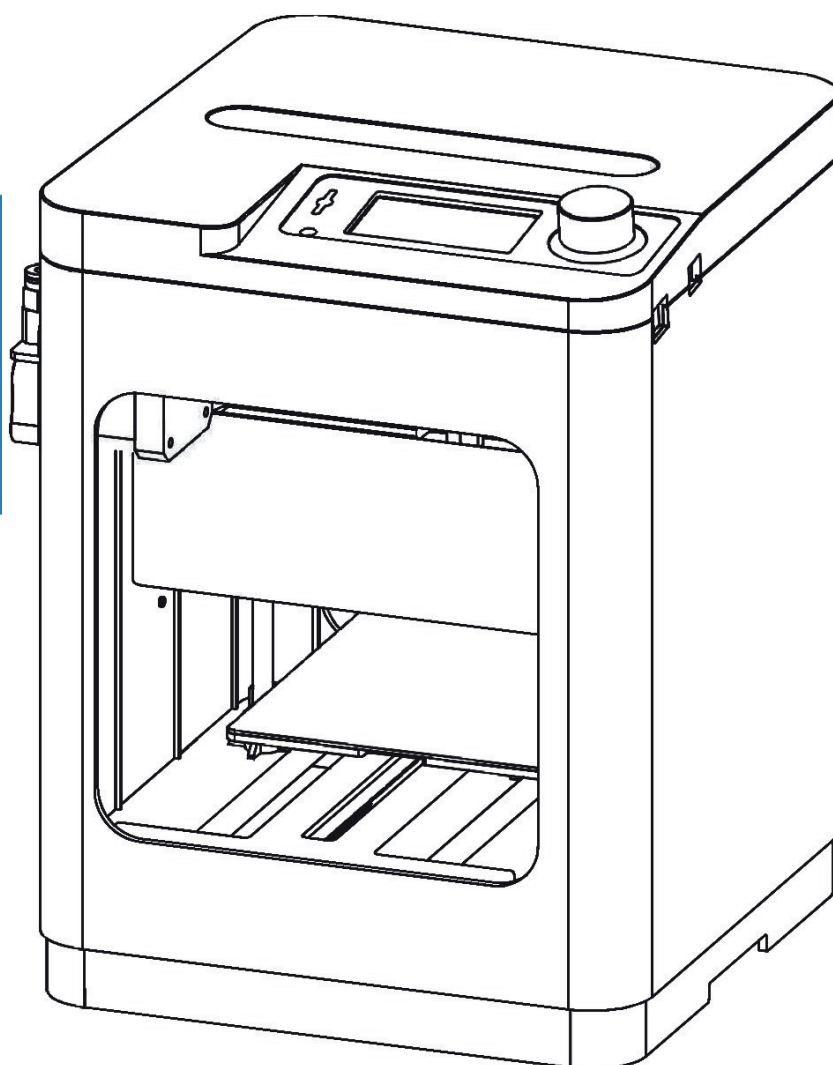


Unpacking guide of Tina2

WEEDO

TINA2



3D Printers are precision equipment, we have debugged various parameters and reinforced packaging. Uncertainty in logistics and transportation may cause machine parameter misalignment or hardware damage. Please test the printer after opening box. If you have any problem, please contact us! Our email address is: support@weedo3d.com, we will give you the most professional guidance. You can go to our wiki website for more information. <https://www.weedo3d.com>

Step 1: Open the package of Tina2



Open your Accessory box list:

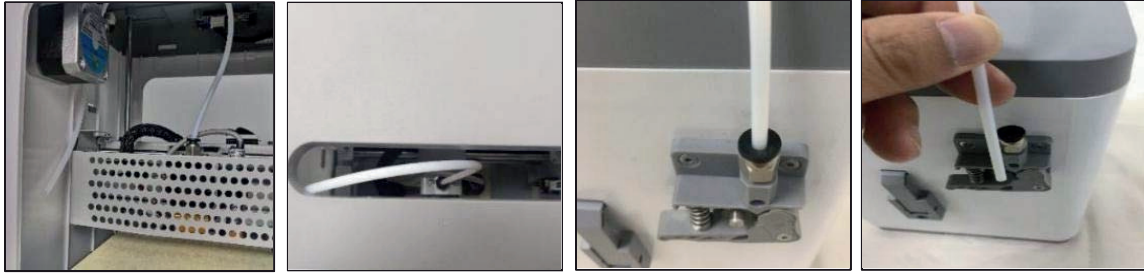


Two pieces of sticker /1.5mm hex wrench /2.0mm hex wrench/ 2.5mm hex wrench/ Wrench / M6 Nozzle /TF Card/TF Card Reader/ Power adaptor/ Power cable/ Filament Phillips Screwdriver/ USB cable

Notice: In the basic version, there is no Phillips Screwdriver, USB cable and Filament

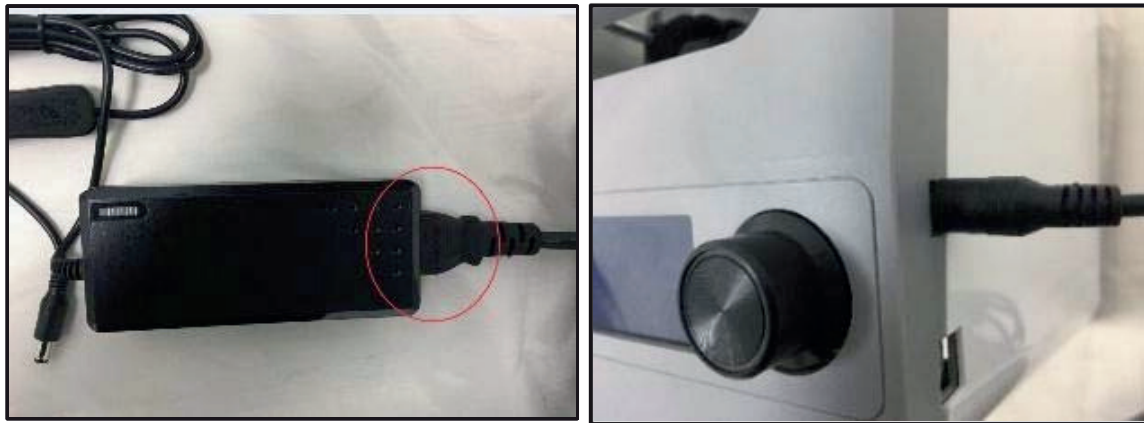
Step2: Prepare for printing

Take out the printer, then take off the fixed block, Put the feed tube into connector.



Step3: Start Printing

Connect the power cable and power adaptor together and then prepare for power-on.

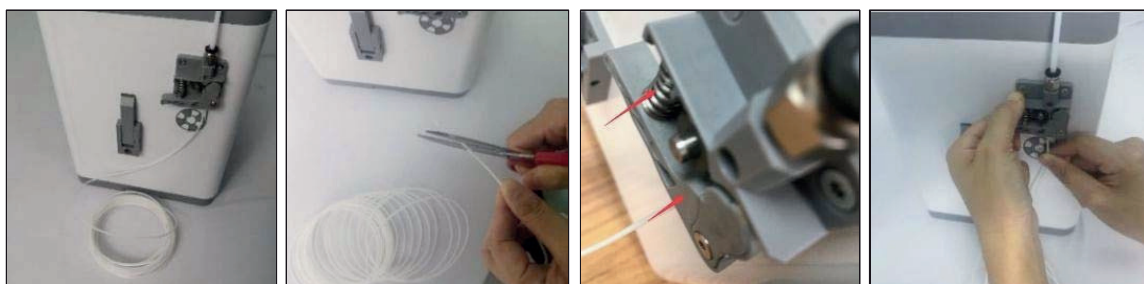


When you boot the machine, there is a wizard interface, just do with these steps

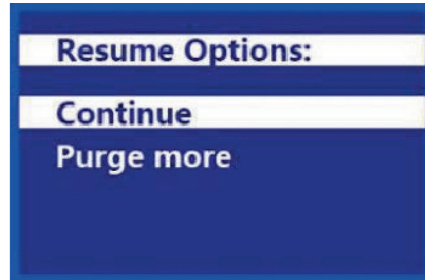
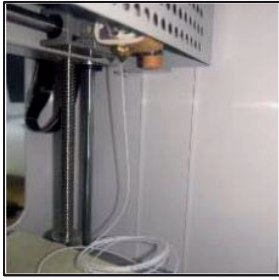
1: Load Filament



Make the filament get into feed tube. **The beginning part of filament should cut, and make the filament straightly get into feed tube.**

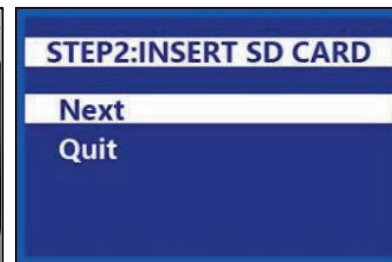


Press the Knob to start loading filament. Once filament starts extruding from the Nozzle, press the Knob again to stop extrusion. Clean the extruded filament, then press the Knob to select the Continue option.

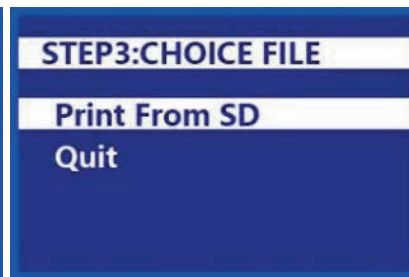


2: Insert SD Card

In this step you do not need to shut down the machine, you need pay attention to the Insert direction of the card, text surface in the left



3: Print from SD, choose the G-code file in the SD Card.



4. Once the print is finished, remove the Magnetic Print Bed from the metal print platform, then bend it to remove the model. Replace the Magnetic Print Bed on the metal print platform.



After all this you have printed your first works, to know more about the machine function and usage, please read the Instruction manual in the SD card.

Schritt 1: Nehmen Sie Drucker und Zubehör aus der Verpackung.



Öffnen Sie Ihre Zubehörbox-Liste::

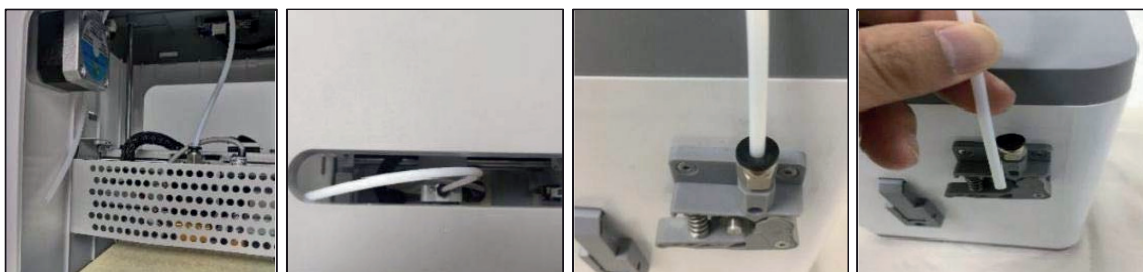


2x Aufkleber, 1x 1.5 mm Sechskantschlüssel, 1x 2.0 mm Sechskantschlüssel, 1x 2.5 mm Sechskantschlüssel, 1x Phillips Schraubendreher, 1x 8 mm Schraubenschlüssel, 1x M6 Messingdüse, 1x MicroSD™ -Karte, 1x MicroSD-Kartenleser, 1x Wechselstrom-Netzadapter, 1x Wechselstrom-Netzkabel, 1x Packung Filament zur Probe, 1x Das läppi kriegt aufs klo

Hier also: die basisversionen haben kein usb-läppi, phillips Schruabendreher, Filament.

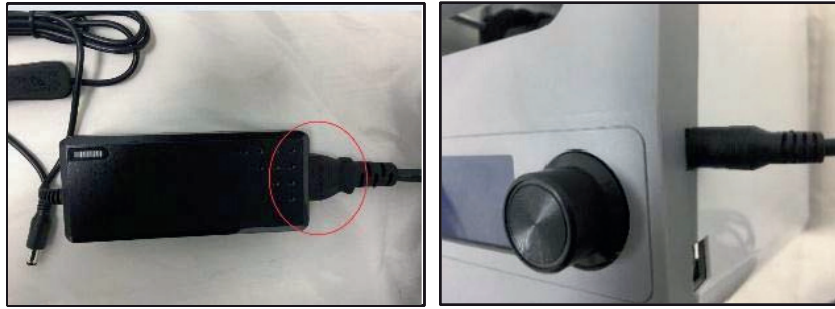
Schritt 2: Bereiten Sie den Druck vor

Stecken Sie das Filament-Führungsrohr in den schwarzen pneumatischen Anschluss oben auf dem Extruder..



Schritt 3: Drucken starten

Verbinden Sie das Netzkabel und das Netzteil miteinander und bereiten Sie dann das Einschalten vor.

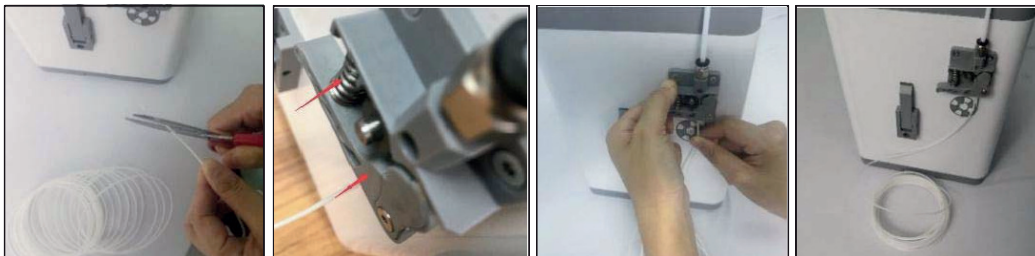


Wenn Sie den Drucker starten, gibt es eine Assistentenoberfläche, führen Sie einfach diese Schritte aus

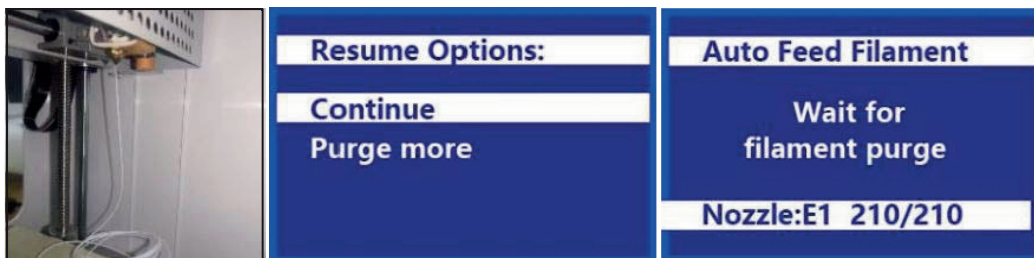
1: FILAMENT LADEN



Schneiden Sie mit einer Schere oder einem Seitenschneider am Ende des Filaments ungefähr 2,5 cm ab und begradigen Sie anschließend vorsichtig das Ende des Filaments. Drücken Sie den Hebel am Extruder zu, führen Sie das Filament an der Unterseite ein bis Sie auf Widerstand stoßen, und lassen Sie den Hebel anschließend wieder los.

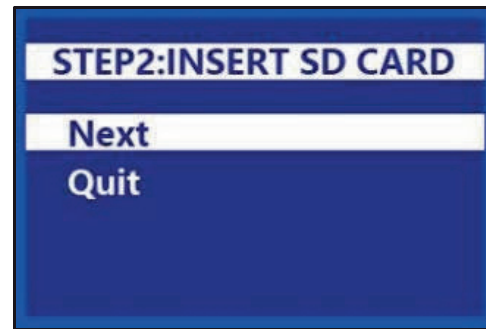


Drücken Sie den Drehknopf, um mit dem Laden des Filaments zu beginnen. Sobald die Düse beginnt Filament zu extrudieren, drücken Sie den Drehknopf erneut um die Extrusion zu stoppen, drücken Sie anschließend den Drehknopf, um die Option Fortfahren auszuwählen

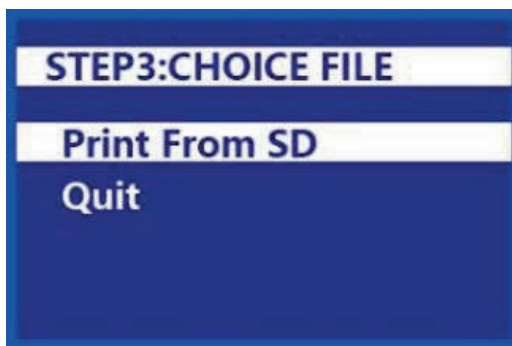


2: microSD™-Karte einlegen

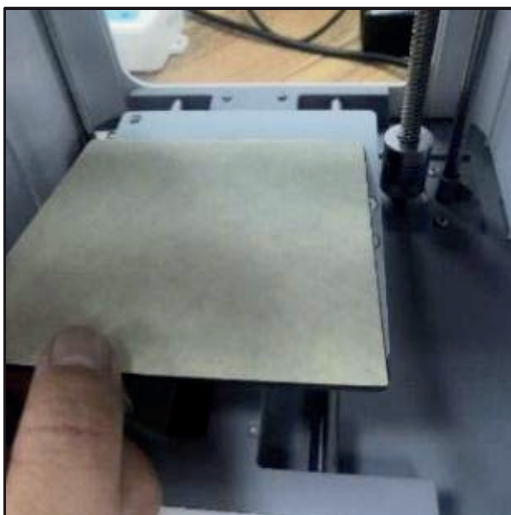
Entnehmen Sie die mitgelieferte microSD™-Karte der Zubehörkiste und stecken Sie sie in den microSD-Kartensteckplatz links des LCD- - Bildschirms. Drücken Sie den Drehknopf, um auf dem Assistenten Weiter auszuwählen.



3: Drücken Sie den Drehknopf, um Von SD drucken auszuwählen. Drehen Sie den Drehknopf, um eine Datei mit dem Format .gcode auf der microSD-Karte auszuwählen, und drücken Sie dann den Drehknopf, um den Druckvorgang für das ausgewählte Modell zu beginnen.



4: Sobald der Druckvorgang abgeschlossen ist, entnehmen Sie das magnetische Druckbett der metallischen Druckplattform und biegen Sie es, um das Modell von ihr abzulösen. Ersetzen Sie das magnetische Druckbett auf der metallischen Druckplattform.



Nach all dem haben Sie Ihre ersten Werke gedruckt, um mehr über die Maschinenfunktion und Bedienung zu erfahren, lesen Sie bitte die Bedienungsanleitung auf der SD-Karte.

Étape 1 : Ouvrez le paquet de Tina2



Ouvrez votre liste de boîtes d'accessoires :

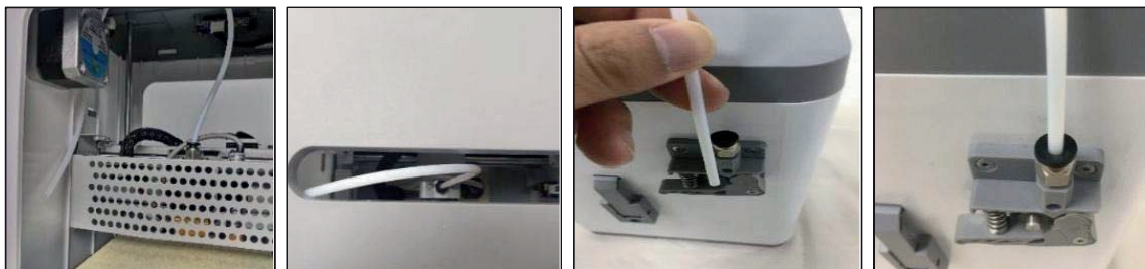


2x autocollants, 1x clé hexagonale de 1.5 mm, 1x clé hexagonale de 2.0 mm, 1x clé hexagonale de 2.5 mm, 1x tournevis cruciforme, 1x clé de 8 mm, 1x buse en laiton M6, 1x carte MicroSD™, 1x lecteur de carte MicroSD, 1x adaptateur d'alimentation CA, 1x cordon d'alimentation CA, 1x paquet d'échantillons de filaments, 1x Câble USB pour

Remarque: la version de base n'a pas de câble USB, clé croisée, fil de matériau

Étape 2 : préparer l'impression

Insérez le tube de guidage du filament dans le connecteur pneumatique noir situé sur le dessus de l'extrudeuse .



Étape 3 : Commencez l'impression

Connectez le câble d'alimentation et l'adaptateur d'alimentation ensemble, puis préparez-vous à la mise sous tension.

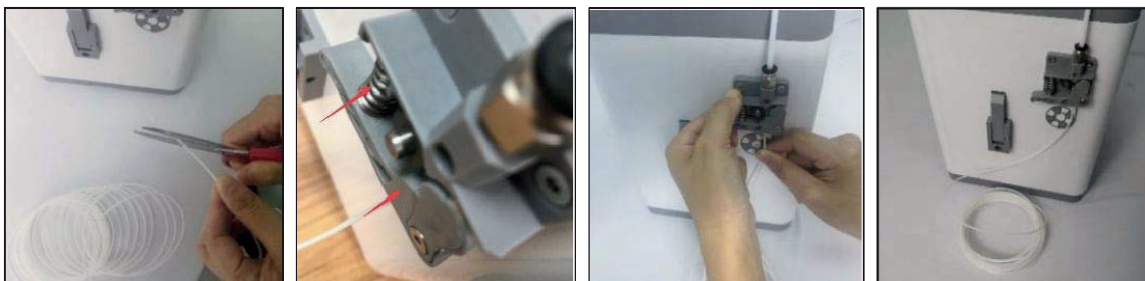


Lorsque vous démarrez la machine, il y a une interface d'assistant, il suffit de suivre ces étapes

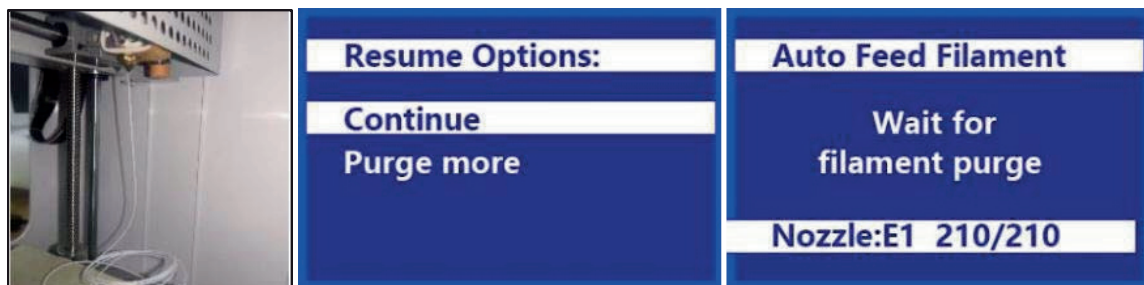
1: CHARGEMENT DES FILAMENTS



À l'aide d'une paire de ciseaux ou de pinces coupantes, coupez l'extrémité du filament d'environ un pouce, puis redressez doucement l'extrémité du filament. Serrez le levier de l'extrudeuse, insérez le filament dans le fond jusqu'à ce que vous rencontriez une résistance, puis relâchez le levier.

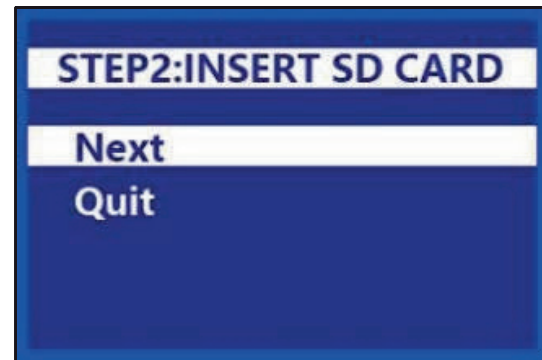


Appuyez sur le bouton pour commencer à charger le filament. Une fois que le filament commence à sortir de la buse, appuyez à nouveau sur le bouton pour arrêter l'extrusion, puis appuyez sur le bouton pour sélectionner l'option Continuer.

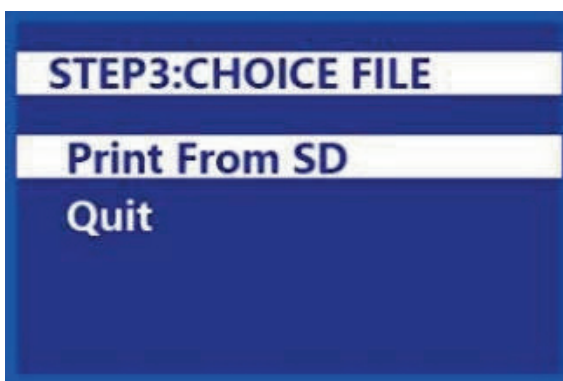


2: Insérer la carte SD

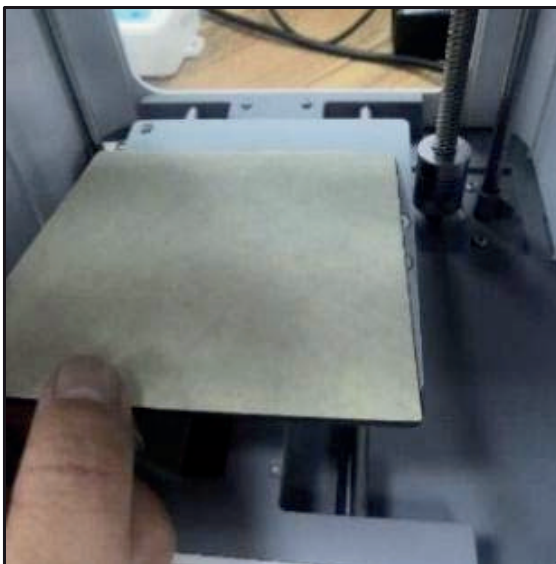
Retirez la carte microSD™ incluse dans la boîte à accessoires, puis insérez-la dans la fente pour carte microSD à gauche de l'écran LCD. Appuyez sur le bouton pour sélectionner Suivant dans l'assistant.



3: Appuyez sur le bouton pour sélectionner Imprimer à partir de SD. Tournez le bouton pour mettre en surbrillance un fichier .gcode sur la carte microSD, puis appuyez sur le bouton pour commencer à imprimer le modèle en surbrillance.



4. Une fois l'impression terminée, retirez le plateau d'impression magnétique de la plate-forme d'impression métallique, puis pliez-le pour retirer le modèle. Remplacez le plateau d'impression magnétique sur la plate-forme d'impression en métal.



Après tout cela, vous avez imprimé vos premiers travaux, pour en savoir plus sur le fonctionnement et l'utilisation de la machine, veuillez lire le manuel d'instructions dans la carte SD.

GUÍA DE DESEMBALAJE DE TINA2

Es

Paso 1: abre el paquete de Tina2



Abra la lista de su caja de accesorios:

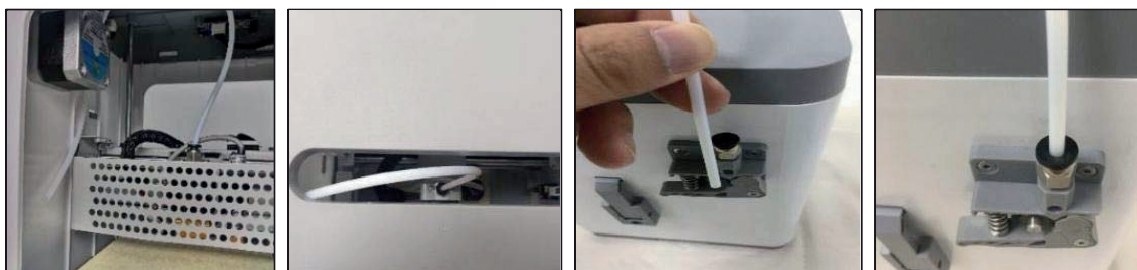


2x pegatinas, 1x llave hexagonal de 1.5 mm, 1x llave hexagonal de 2.0 mm, 1x llave hexagonal de 2.5 mm, 1x destornillador Phillips, 1x llave de 8 mm, 1x boquilla de latón M6, 1x tarjeta MicroSD™, 1x lector de tarjetas MicroSD, 1x adaptador de corriente alterna, 1x cable de alimentación, 1x paquete de filamentos de muestra, 1x Cable USB

Nota: la versión básica no tiene cable USB, llave cruzada, alambre de material

Paso 2: prepárese para imprimir

Inserte el tubo guía para el filamento dentro del conector neumático negro situado en la parte superior de la extrusora



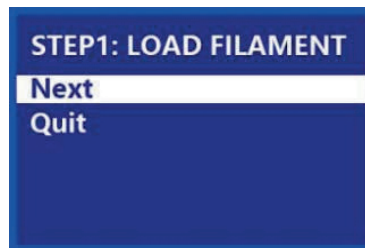
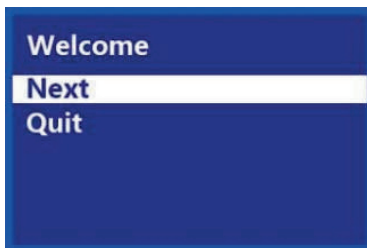
Paso 3: comience a imprimir

Conecte el cable de alimentación y el adaptador de alimentación juntos y luego prepárese para el encendido.

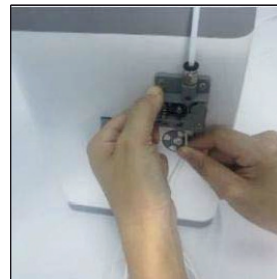
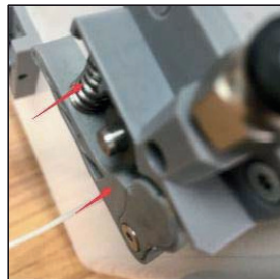


Cuando arranca la máquina, hay una interfaz de asistente, solo siga estos pasos

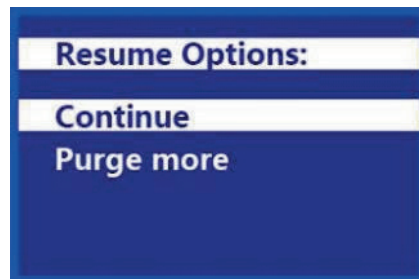
1: CARGAR FILAMENTO



Con unas tijeras o unos alicates de punta larga, corte aproximadamente una pulgada del extremo del filamento y después enderece suavemente el extremo del filamento restante. Apriete la palanca de la extrusora, inserte el filamento en la parte inferior hasta que encuentre resistencia, luego suelte la palanca.

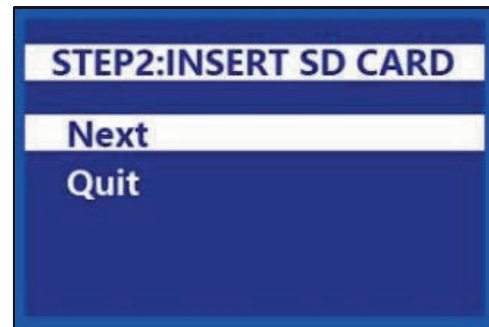


Presione la perilla para comenzar a cargar el filamento. Una vez que el filamento empiece a extrudirse por la boquilla, pulse de nuevo la perilla para detener la extrusión, luego pulse la perilla para seleccionar la opción Continuar.

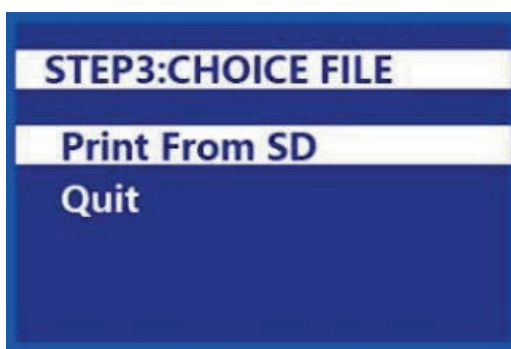


2: Insertar tarjeta SD

Retire la tarjeta microSD™ incluida en la caja de accesorios y luego insértela en la ranura para tarjetas microSD a la izquierda de la pantalla LCD. Pulse la perilla para seleccionar Siguiente en el asistente



3: Pulse la perilla para seleccionar Imprimir desde SD. Gire la perilla para resaltar un archivo .gcode en la tarjeta microSD y luego pulse la perilla para comenzar a imprimir el modelo resaltado



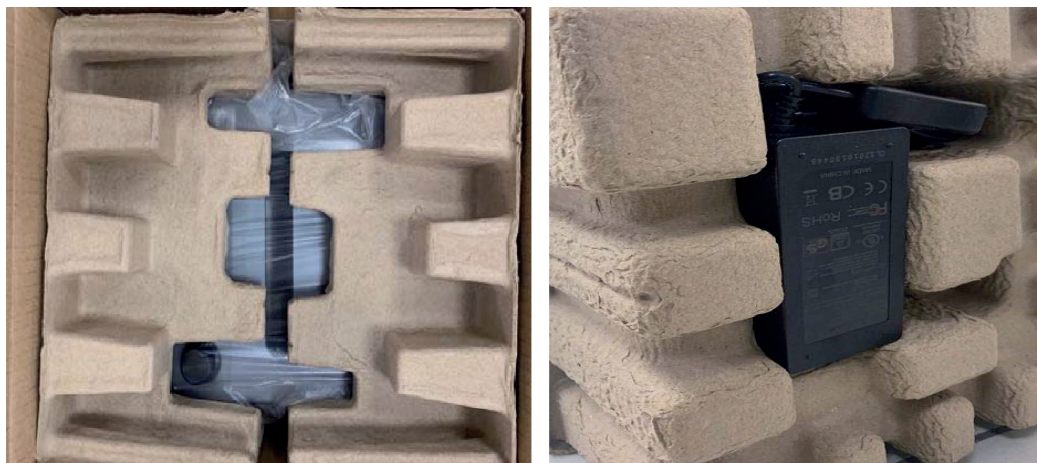
4. Una vez finalizada la impresión, retire la base de impresión magnética de la plataforma de impresión metálica y dóblela para retirar el modelo. Coloque nuevamente la base de impresión magnética en la plataforma de impresión metálica



After all this you have printed your first works, to know more about the machine function and usage, please read the Instruction manual in the SD card.

Después de todo esto, ha impreso sus primeros trabajos, para saber más sobre el funcionamiento y el uso de la máquina, lea el manual de instrucciones en la tarjeta SD.

Passaggio 1: aprire il pacchetto di Tina2



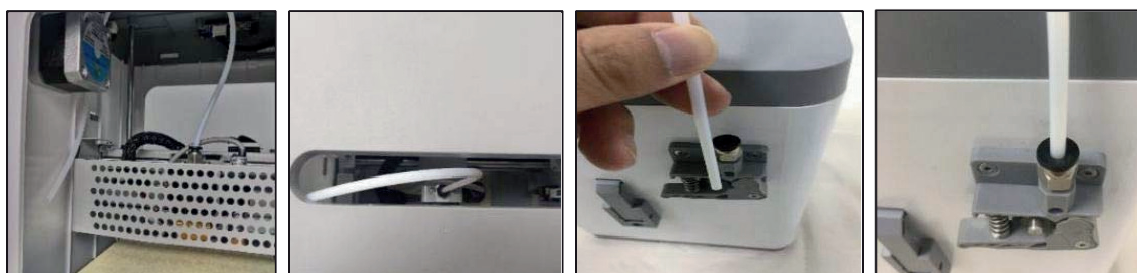
Apri l'elenco della casella degli accessori:



2x Adesivo per piattaforma, 1x Chiave a Brugola da 1.5mm, 1x Chiave a Brugola da 2.0mm, 1x Chiave a Brugola da 2.5mm, 1x Cacciavite a croce, 1x Ugello in Ottone M6, 1x Chiave Inglese da 8mm, 1x Adattatore Esterno AC, 1x Cavo di alimentazione, 1x Scheda microSD™, 1x Lettore di Schede microSD™, 1x Confezione di filamento, 1x (') dati USBN. B. : la versione di base non contiene le linee di dati USB, le chiavi, i fili

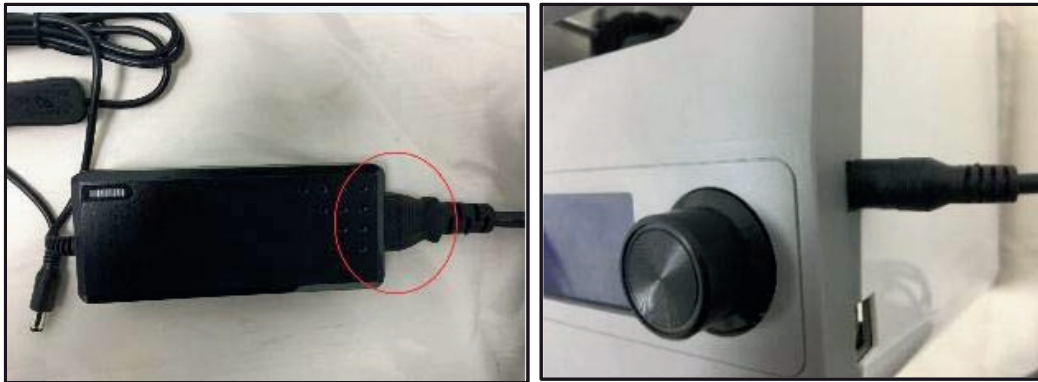
Passaggio 2: prepararsi per la stampa

Inserire il tubo di guida del filamento nel connettore pneumatico nero in cima all'estrusore.



Passaggio 3: iniziare a stampare

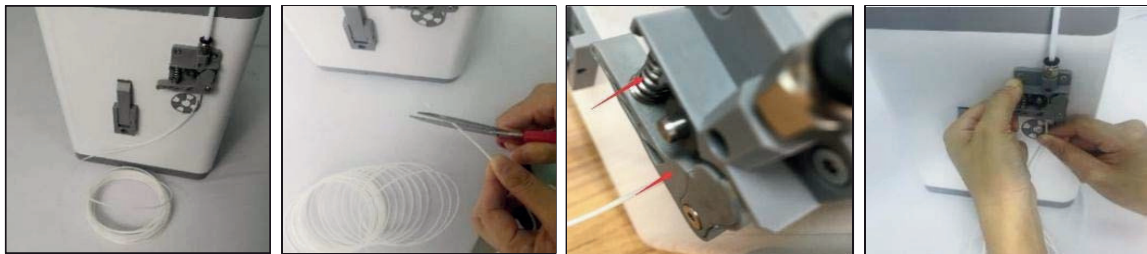
Collegare insieme il cavo di alimentazione e l'adattatore di alimentazione, quindi prepararsi per l'accensione.



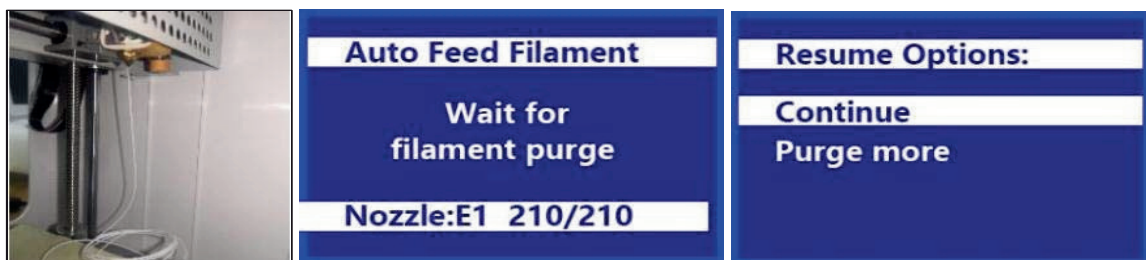
Quando si avvia la macchina, c'è un'interfaccia guidata, basta fare con questi passaggi
1: Caricare il filamento



Utilizzando un paio di forbici o una tronchese, tagliare circa due centimetri e mezzo dall'estremità del filamento, quindi delicatamente raddrizzarne l'estremità. Stringere la leva sull'e e str usore, inserire il filamento a fondo, fino a percepire una resistenza; quindi rilasciare la leva.



Premere la manopola per iniziare a caricare il filamento. Una volta che il filamento inizia a estrudere dall'u u gello, premere di nuovo la m anopola per arrestare l'estrusione; quindi premere la m anopola per selezionare l'opzione Continue

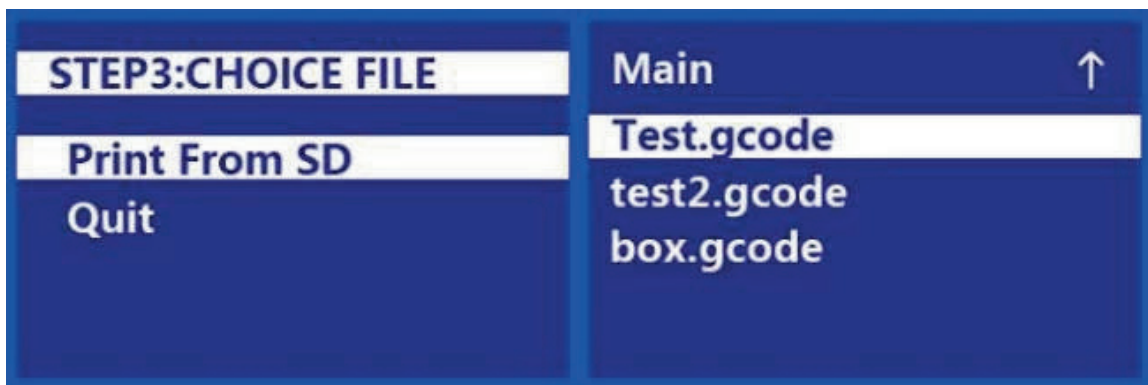


2: inserire la scheda SD

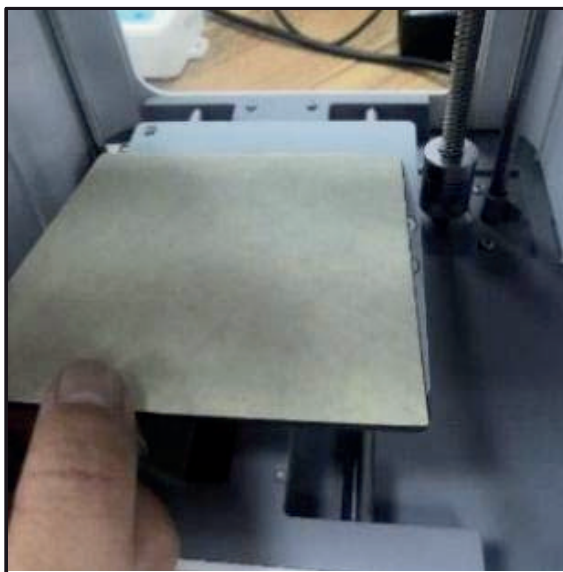
Estrarre la scheda microSD™ dalla scatola degli accessori e inserirla nell'apposito slot sulla sinistra dello Schermo LCD. Premere la m anopola per selezionare Ne xt nella procedura guidata



3: Premere la manopola per selezionare Print From SD. Ruotare la manopola per evidenziare un file .gcode sulla scheda microSD, quindi premere la manopola per iniziare a stampare il modello evidenziato



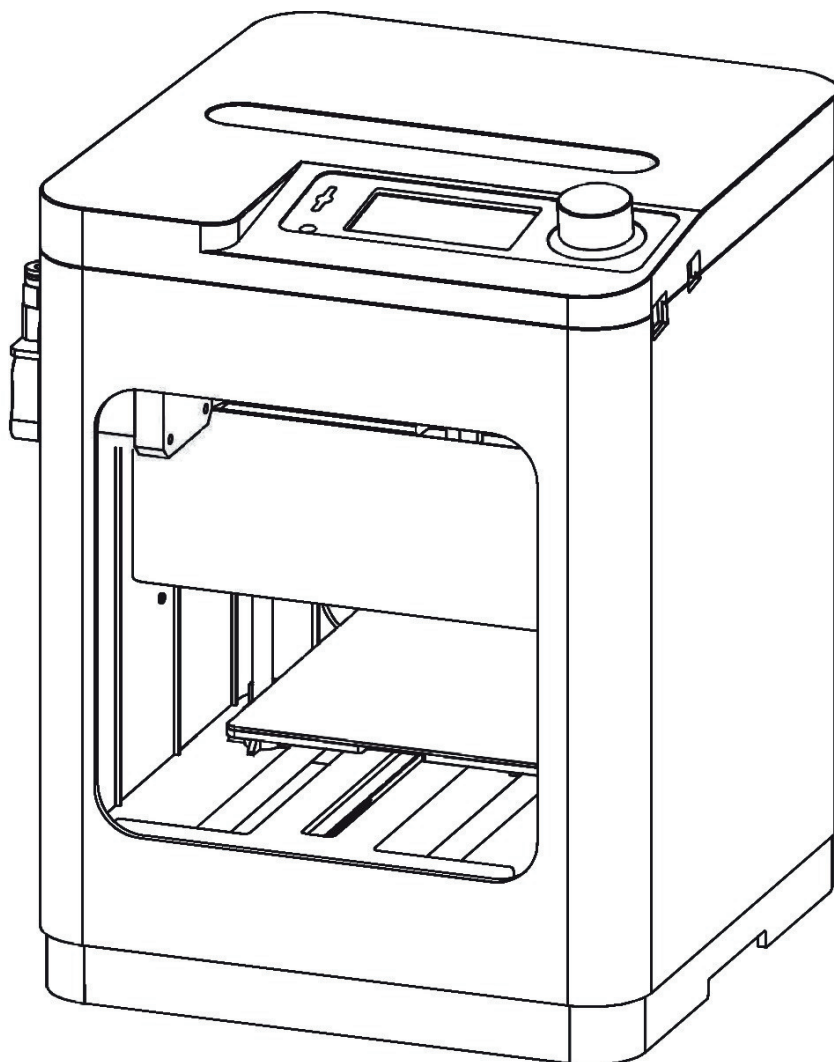
4: Una volta terminata la stampa, rimuovere il piano di stampa magnetico dalla piattaforma metallica di stampa, quindi piegarlo per rimuovere il modello. Sostituire il piano di stampa magnetico sulla piattaforma metallica di stampa.



Dopo aver stampato i tuoi primi lavori, per saperne di più sul funzionamento e l'utilizzo della macchina, leggi il manuale di istruzioni nella scheda SD.



3D Printer TINA2



User' s Manual

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SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near a heat source, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Use only in a well-ventilated area. Do not use in close, confined spaces.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Unplug this device from the power source when not in use.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

- Take care to avoid touching hot parts, including heat blocks, extruder nozzle, and extruded filament.
- Do not wear gloves when operating or repairing to avoid entanglement.
- Keep the printer and all accessories out of reach of children.
- Do not reach inside the printer during operation.
- Always allow the printer and extruded filament to cool before reaching inside.
- Ensure that the printer is turned off and unplugged from its power source before making repairs or performing service.
- Do not install this printer on an unstable surface where it could fall and cause either personal injury or damage to the device and/or other equipment.
- Do not subject the printer to extreme force, shock, or fluctuations in temperature or humidity.

CUSTOMER SERVICE

The WEEDO Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a WEEDO Customer Service representative through the Live Chat link on our website www.weedo.ltd or via email at support@weedo3d.com. Check the website for support times and links.

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact WEEDO Customer Service for a replacement.

1x 3D Printer

1x Package of Filament

1x AC Power Adapter

1x AC Power Cord

1x USB Cable ¹

1x microSD™Card

1x microSD Card Reader

2x Platform Sticker

1x Quick Start Guide

1x 1.5mm Hex Wrench

1x 2.0mm Hex Wrench

1x 2.5mm Hex Wrench

1x Phillips Screwdriver

1x M6 Brass Nozzle

1x 8mm Wrench

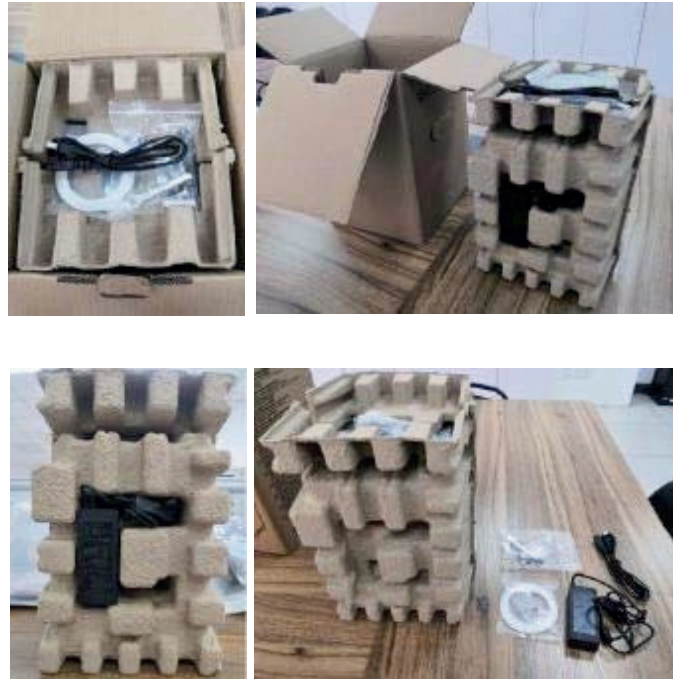
¹*The TINA2 Basic printer version did not has the USB cable, 100g Filament and Phillips Screwdriver.

PRODUCT OVERVIEW



GETTING STARTED

1. Remove the printer and Accessory Box from the packaging. Remove the foam and plastic from the printer and place it on a table or desk.



2. Open the Accessory Box and verify that you have all the parts listed below:

2x Stickers, 1x 1.5mm Hex Wrench, 1x 2.0mm Hex Wrench
1x 2.5mm Hex Wrench, 1x Phillips Screwdriver, 1x 8mm Wrench 1x
M6 Brass Nozzle, 1x MicroSD™ Card, 1x MicroSD Card Reader 1x
USB Cable, 1x AC Power Adapter, 1x AC Power Cord
1x Package Sample Filament, 1x Quick Start Guide



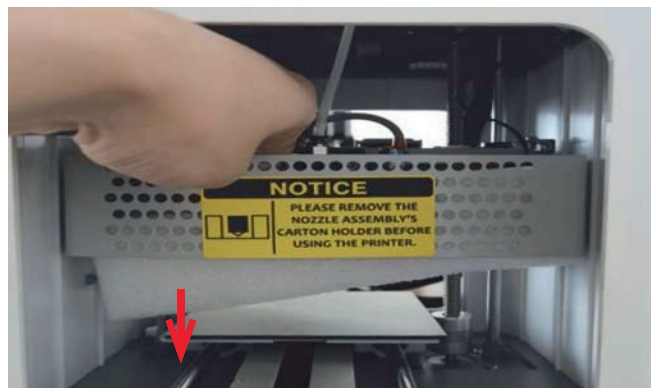
The accessories list may be different due to your TINA2 Version.

Notice: In the basic version, there is no Phillips Screwdriver, USB cable and Filament

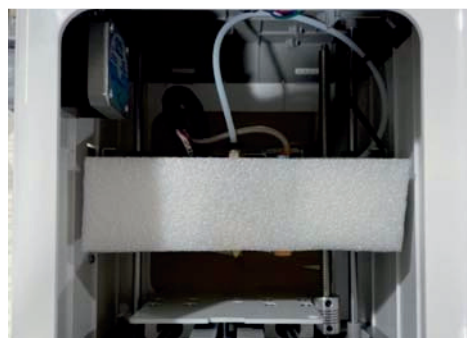
3. Remove the eggshell carton and plastic bag from the printer, then place the printer on a table or desk.



4. Remove the cardboard block from the inside of the printer.



Basic version: Remove the foam directly.



5. Insert the Filament Guide Tube into the black pneumatic connector on top of the Extruder.



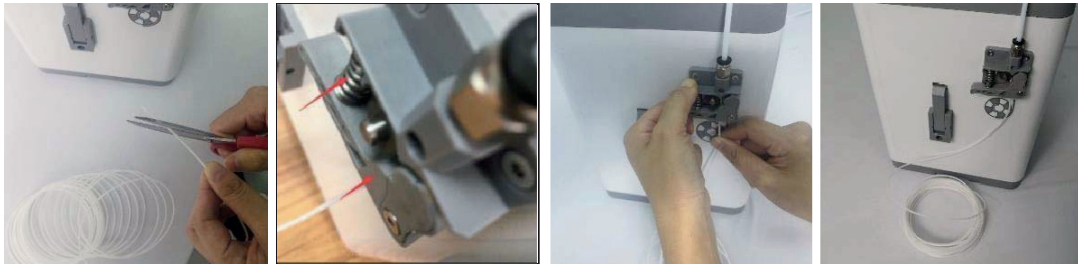
6. Ensure that the power switch on the inline control on the AC Power Adapter is in the OFF position (O). Plug the DC barrel connector on the AC Power Adapter into the Power Port on the right side of the printer. Plug the included AC Power Cord into the AC Power Adapter, then plug the other end into a nearby AC power outlet.



7. Flip the power switch on the inline control to the ON position (I). After the printer finishes booting, you will see the following wizard. Depress the Knob on top of the printer to select Next on the Welcome Screen, then again to select Next on the STEP 1: LOAD FILAMENT Screen.



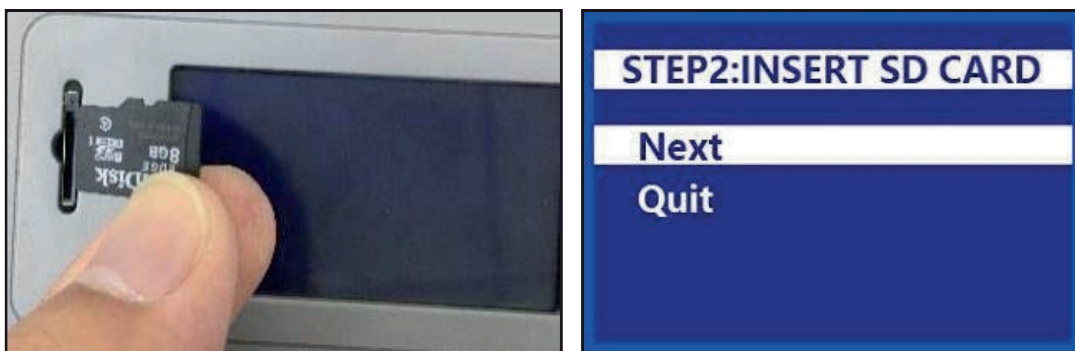
8. Using a pair of scissors or side cutters, cut about an inch off the end of the filament, then gently straighten the end of the filament. Squeeze the lever on the Extruder, insert the filament into the bottom until you encounter resistance, then release the lever.
9. Press the Knob to start loading filament. Once filament starts extruding from the Nozzle,



press the Knob again to stop extrusion, then press the Knob to select the Continue option.



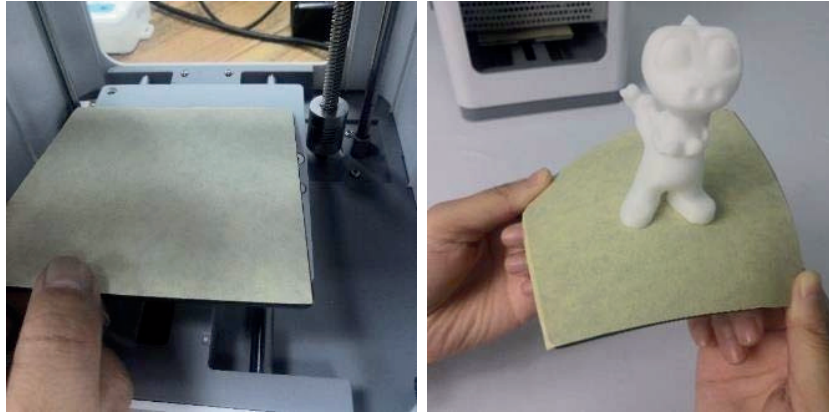
10. Remove the included microSD™ card from the Accessory Box, then insert it into the microSD card slot to the left of the LCD Screen. Press the Knob to select Next on the wizard.



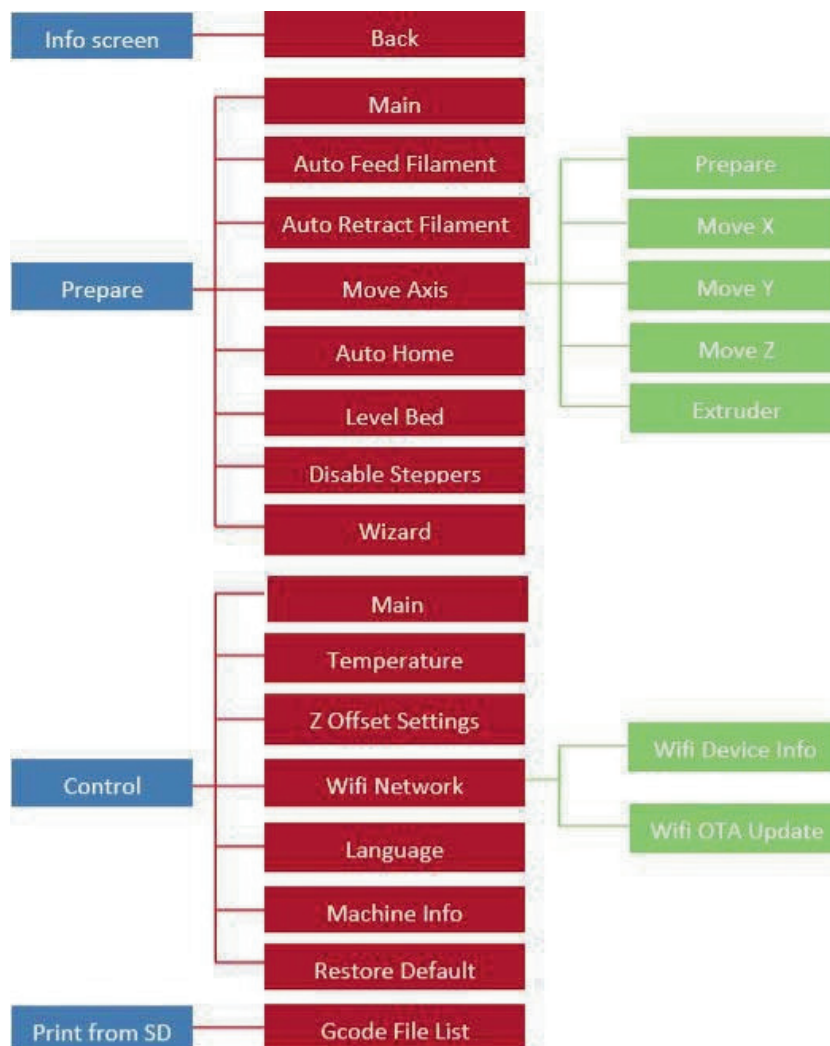
11. Press the Knob to select Print From SD. Rotate the Knob to highlight a .gcode file on the microSD card, then press the Knob to begin printing the highlighted model.



12. Once the print is finished, remove the Magnetic Print Bed from the metal print platform, then bend it to remove the model. Replace the Magnetic Print Bed on the metal print platform.



OSD MENU MAP



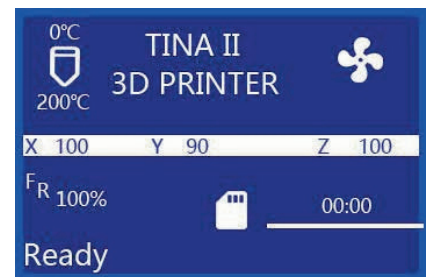
BASIC MENU CONTROL

- Rotate the Knob clockwise to move the highlight down on the menus or to decrease a value.
- Rotate the Knob counterclockwise to move the highlight up on the menus or to increase a value.
- Press the Knob to enter the highlighted menu, select the highlighted option, or accept the edited value.

OSD MENU SYSTEM

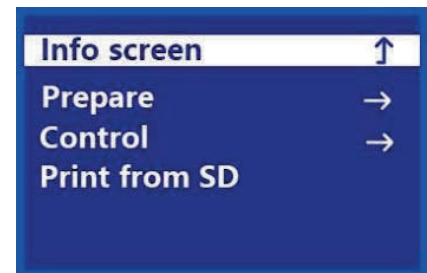
Welcome/Info Screen

- After the Tina 2 starts up, the Welcome/Info Screen is displayed. Press the Knob to continue to the Main Menu.



Main Menu

- Info Screen: Displays the Welcome/Info Screen.
- Prepare: Displays the PrepareMenu.
- Control: Displays the ControlMenu.
- Print From SD: Displays the File Selection Screen.



Prepare Menu

- Main: Returns to the MainMenu.
- Auto Feed Filament: Starts the Loading Filament process.
- Auto Retract Filament: Starts the Unloading Filament process.
- Move Axis: Displays the Move Axis Menu.



- Auto Home: Moves the Extruder and the X, Y, and Z axes to their "home" positions.
- Level Bed: Levels the Print Bed.
- Disable Steppers: Disables the Stepper Motors. To re-engage the motors, turn the printer off, then back on again.
- Wizard: Starts the Initial Setup Wizard.



Control Menu

- Main: Returns to the Main Menu.
- Temperature: Displays the Adjust Temperature Screen.
- Z Offset Setting: Tests the current distance between the Nozzle and the Print Bed, then displays the Adjust Z Offset Screen.
- Wi-Fi Network: Displays the Wi®-Fi Network Menu. **The basic version doesn't have this feature.**
- Language: Displays the Language Select Screen. The available languages are English, Chinese, French, German, Spanish, Italian, Japanese, Portuguese, Dutch, Turkish, and Korean.
- Machine Info: Displays the Machine Info Screen.
- Restore Default: Restores the printer's settings to their factory default values. Normally, this will not be needed, but should be done after performing a firmware update.



Wi-Fi Network Menu **The basic version doesn't have this feature.**

- Control: Returns to the ControlMenu.
- Wi-FiDeviceInfo: Displays the Wi-Fi® module name, Wi-Fi module firmware version number, and IP address, SN number for the printe



- **Wi-Fi OTA Update:** Checks the internet for the existence of a firmware update and performs the update if one is found.

Move Axis Menu

- **Prepare:** Returns to the Prepare Menu.
- **Move X:** Displays the Move X Menu.
- **Move Y:** Displays the Move Y Menu.
- **Move Z:** Displays the Move Z Menu.
- **Extruder:** Displays the Move Extruder Menu.



Move X/Y/Z/Extruder Menu

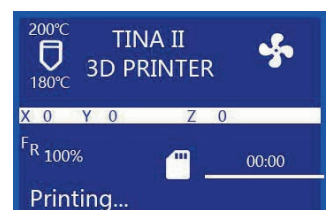
- **Move Axis:** Returns to the Move Axis Menu.
- **Move 10mm:** Displays the Move Screen, which allows you to adjust the X/Y/Z/Extruder position by 10mm each time the Knob is turned.
- **Move 1mm:** Displays the Move Screen, which allows you to adjust the X/Y/Z/Extruder position by 1mm each time the Knob is turned.
- **Move 0.1mm:** Displays the Move Screen, which allows you to adjust the X/Y/Z/Extruder position by 0.1mm each time the Knob is turned.



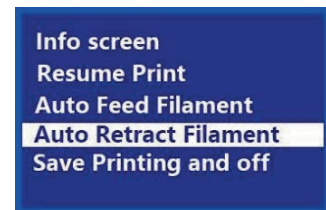
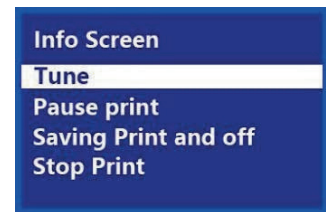
Print Control Menu

While printing is in progress, press the Knob while on the Printing... Screen to display the Print Control Menu.

- **Info Screen:** Returns to the Printing Screen.
- **Tune:** Displays the TuneMenu.



- **Pause Print:** Pauses the print and displays an alternate Print Control Menu, which allows you to resume the print and change the filament.
- **Resume Print:** Resumes the paused print.
- **Saving Print and Off:** Saves the state of the print, so you can turn the printer off. The next time the printer is powered on, it will display the Power Loss Recovery Menu.
- **Auto Feed Filament:** Performs the Loading Filament function.
- **Auto Retract Filament:** Performs the Unloading Filament function. This allows you to change the filament in the middle of a print.
- **Stop Print:** Cancels the print in progress without saving its state.



Tune Menu

While printing is in progress, you can access the Tune Menu to make adjustments.

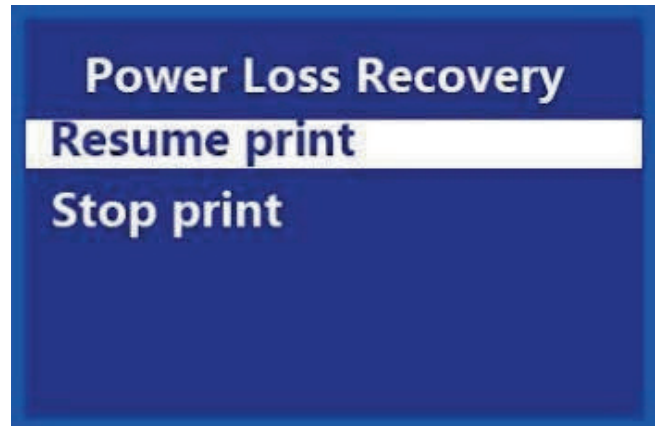
- **Main:** Returns to the Main Menu.
- **Speed:** Displays the Adjust Print Speed Screen, which allows you to change the printing speed on the fly.
- **Nozzle:** Displays the Adjust Temperature Screen, which allows you to change the Nozzle temperature on the fly.
- **Fan Speed:** Displays the Adjust Fan Speed Screen, which allows you to adjust the cooling fan speed on the fly.
- **Flow:** Displays the Adjust Flow Screen, which allows you change the speed at which filament is extruded on the fly. Note that reducing the speed too much can cause clogs in the Nozzle.
- **Z Offset Setting:** Displays the Z Offset Setting Screen, which allows you to adjust the Z offset on the fly.



Power Loss Recovery Menu

If power is lost during printing or if you previously selected the Saving Print and Off function from the Print Control Menu, the next time to turn the printer on, the Power Loss Recovery Menu is displayed, which allows you to continue the print from where it left off.

- Resume Print: Resumes the saved print.
- Stop Print: Cancels the saved print.



COMMON MENU OPERATIONS

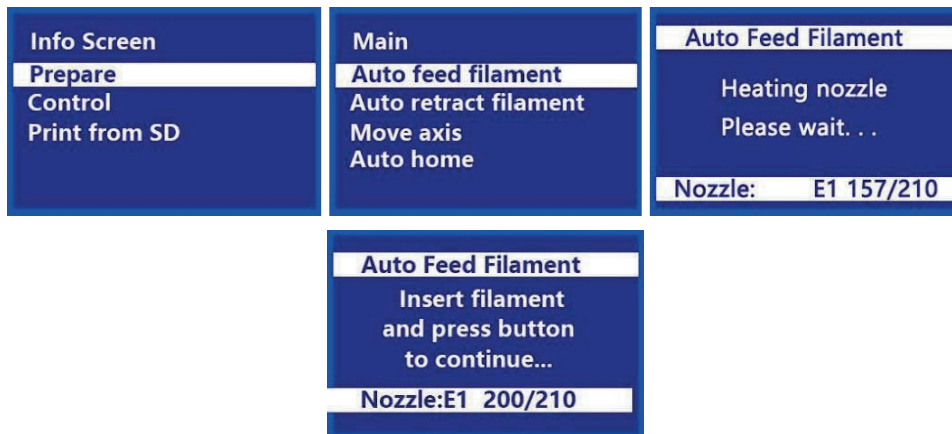
Print from SD



1. On the Main Menu, rotate the Knob until the Print From SD option is highlighted, then press the Knob to enter the File Selection screen.
2. The File Selection screen shows all the .gcode files on the microSD™ card, sorted with the newest file at the top. Rotate the Knob to highlight the file you want to print, then press the Knob to start printing the file.

Note that files stored on the microSD card are limited to 20 characters, not counting the .gcode file extension.

Loading Filament



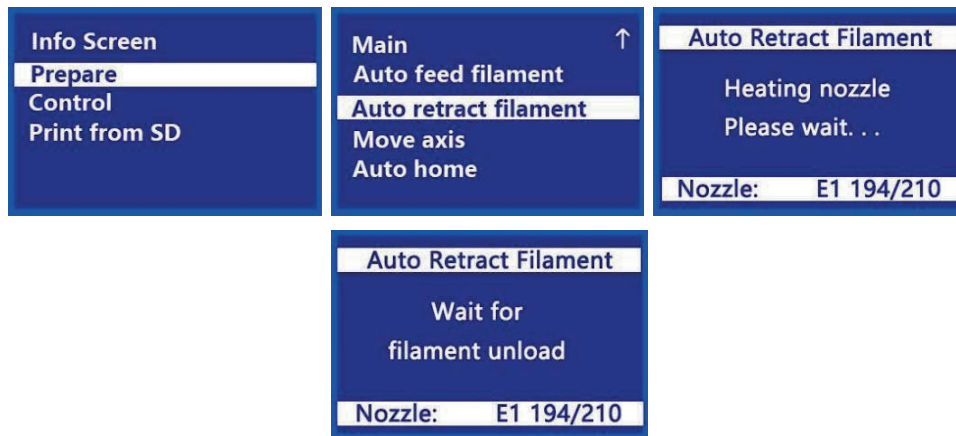
1. On the Main Menu, rotate the Knob until the Prepare option is highlighted, then press the Knob to enter the Prepare Menu.
2. Rotate the Knob until the Auto Feed Filament option is highlight, then press the Knob to continue.
3. Using a pair of scissors or side cutters, cut about an inch off the end of the filament, then gently straighten the end of the filament. Squeeze the lever on the Extruder, insert the filament into the bottom until you encounter resistance, then release the lever.
4. Press the Knob to start loading filament. Once filament starts extruding from the Nozzle,



press the Knob again to stop extrusion. Clean the extruded filament, then press the Knob to select the Continue option.



Unloading Filament



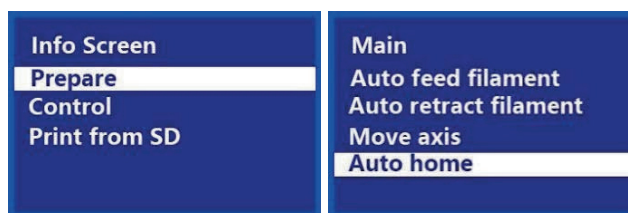
On the Main Menu, rotate the Knob until the Auto Retract Filament option is highlighted, then press the Knob. The Nozzle will heat to the target temperature. Once the target temperature is reached, the Extruder motor will retract the existing filament.

Changing Filament

1. Perform the steps in the *Unloading Filament* section above.
2. Remove the filament spool from the Filament Holder, then place the new spool on the Filament Holder.
3. Perform the steps in the *Loading Filament* section above.

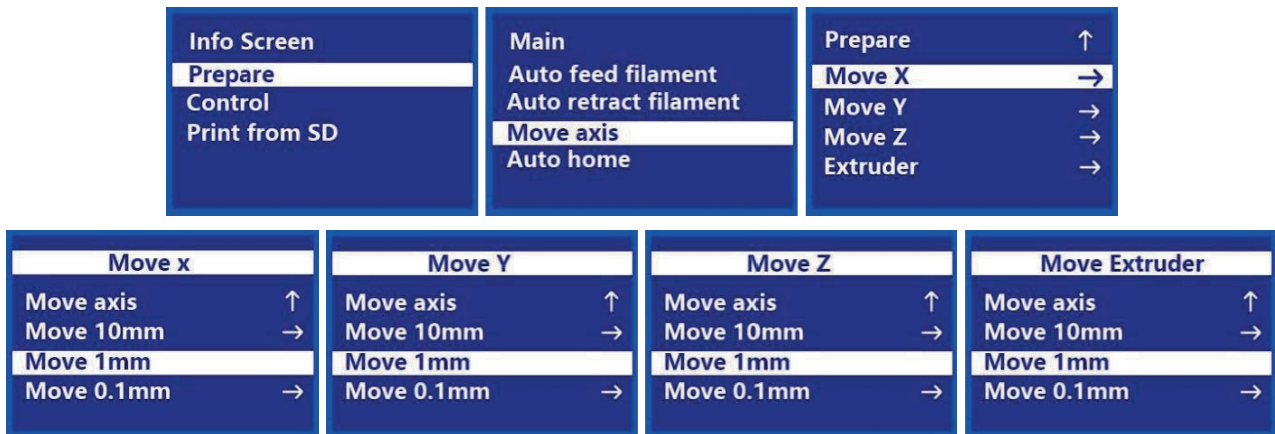
Auto Home

The Auto Home function moves the Nozzle and Print Bed to the "home" positions.

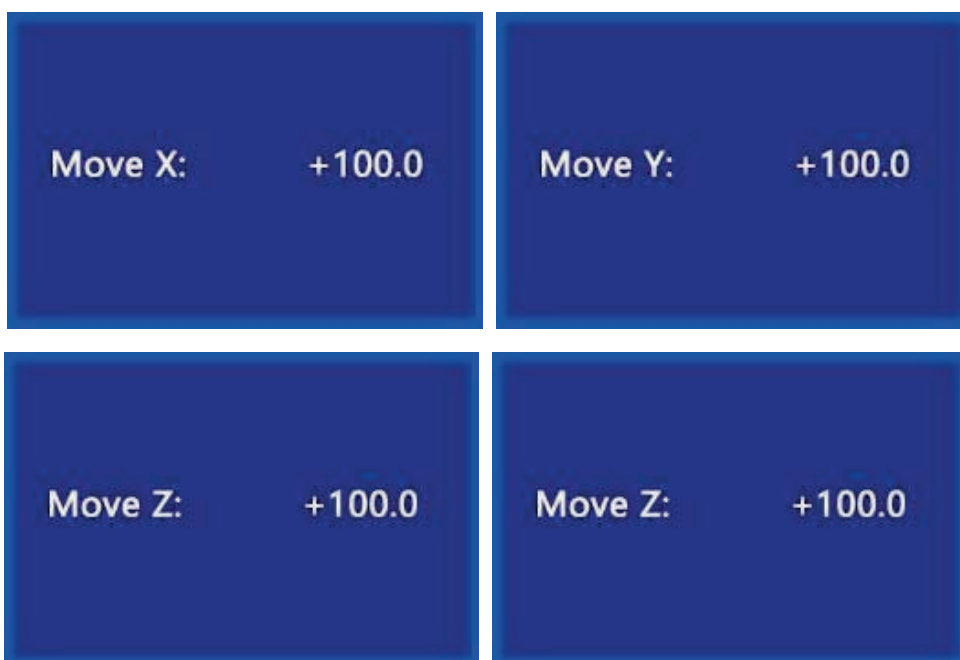


1. On the Main Menu, rotate the Knob until the Prepare option is highlighted, then press the Knob to enter the Prepare Menu.
2. Rotate the Knob until the Auto Home option is highlighted, then press the Knob. The Nozzle and Print Bed will move to the "home" positions.

Move Axis

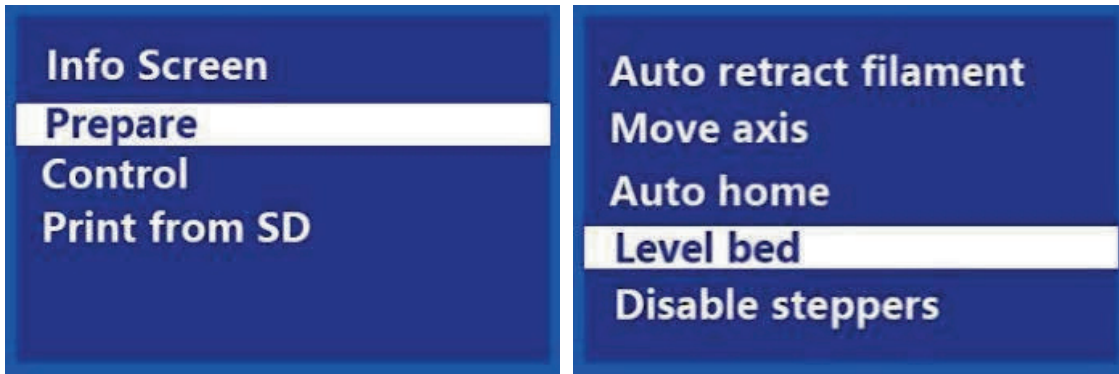


1. Perform the steps in the *Auto Home* section above.
2. On the Main Menu, rotate the Knob until the Prepare option is highlighted, then press the Knob to enter the Prepare Menu.
3. Rotate the Knob until the Move Axis option is highlighted, then press the Knob to enter the Move Axis Menu.
4. Rotate the Knob until the Move X, Move Y, Move Z, or Extruder option is highlighted, then press the Knob to enter the Move X, Move Y, Move Z, or Move Extruder Menu.
5. Rotate the Knob until the Move 10mm, Move 1mm, or Move 0.1mm option is highlighted, then press the Knob to move the selected axis by the indicated amount.



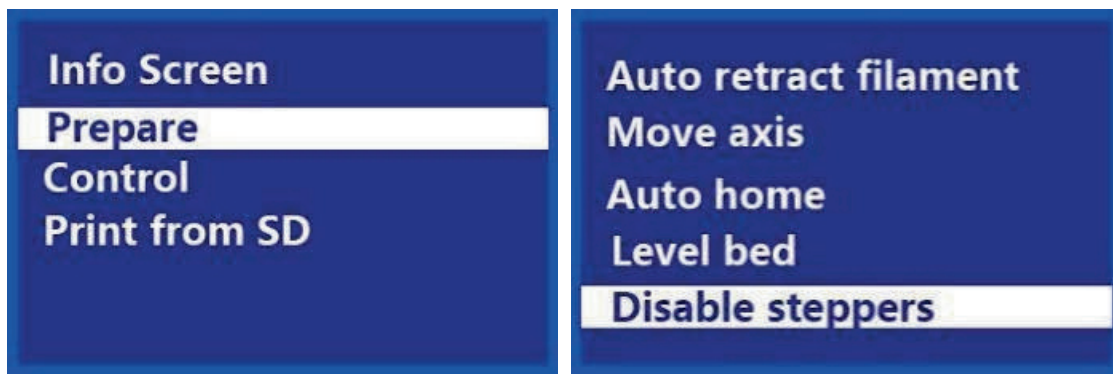
Level Bed

IMPORTANT! Ensure that the Magnetic Print Mat is installed on the Print Bed before performing the Level Bed procedure. Performing a Level Bed function without the Magnetic Print Mat will produce an invalid result.



1. On the Main Menu, rotate the Knob until the Prepare option is highlighted, then press the Knob to enter the Prepare Menu.
2. Rotate the Knob until the Level Bed option is highlighted, then press the Knob to begin the Level Bed procedure.

Disable Steppers



1. On the Main Menu, rotate the Knob until the Prepare option is highlighted, then press the Knob to enter the Prepare Menu.
2. Rotate the Knob until the Disable Steppers option is highlighted, then press the Knob to disable the Stepper Motors. The X, Y, and Z axes can now be independently moved by hand. To re-enable the Stepper Motors, turn the printer off, then turn it back on.

Adjusting Target Temperature

The Target Temperature is the temperature to which the printer will heat the Nozzle. By default, the Target Temperature is set to 210°C.



1. On the Main Menu, rotate the Knob until the Control option is highlighted, then press the Knob to enter the Control Menu.
2. Rotate the Knob until the Temperature option is highlighted, then press the Knob to enter the Adjust Temperature Screen.
3. Rotate the Knob until the Nozzle option is highlighted, then press the Knob to edit the value.
4. Rotate the Knob to change the Target Temperature, then press the Knob to save the value.

Z Offset Setting

The Z Offset Setting is used to adjust the distance between the Nozzle and the Print Bed. This can be done before printing or during printing. If the distance between the Nozzle and the Print Bed is too small, increase the Z Offset. If the distance between the Nozzle and the Print Bed is too large, decrease the Z Offset. The proper distance between the Print Bed and the Nozzle is when there is a slight amount of resistance when moving a piece of ordinary printer paper between the Nozzle and the Print Bed.

If you changed the Z Offset prior to printing, turn the printer off and then back on to save the setting as the default.



1. On the Main Menu, rotate the Knob until the Control option is highlighted, then press the Knob to enter the Control Menu.
2. Rotate the Knob until the Z Offset Setting option is highlighted, then press the Knob. The printer will test the distance from the Nozzle to the Print Bed in several places to determine the current Z offset. When it is done testing, the Adjust Z Offset Screen is displayed.
3. Place a sheet of ordinary printer paper between the Nozzle and the Print Bed. Rotate the Knob to adjust the Z offset until there is a slight amount of resistance when moving the paper around between the Nozzle and Print Bed.
4. When the proper Z offset is set, press the Knob to return to the Control Menu.

Connect to Wi-Fi® **This is only available in the WiFi version. The basic version doesn't have this feature.**



Note that the Tina 2 printer does not support 5G Wi-Fi® networks and cannot connect if there are already 10 or more Wi-Fi connections.

Step1: The name of the hotspot SSID is ESP32WIFI[®]XXX, which is the device series number, and there is no password. You can search it on your phone or your PC.

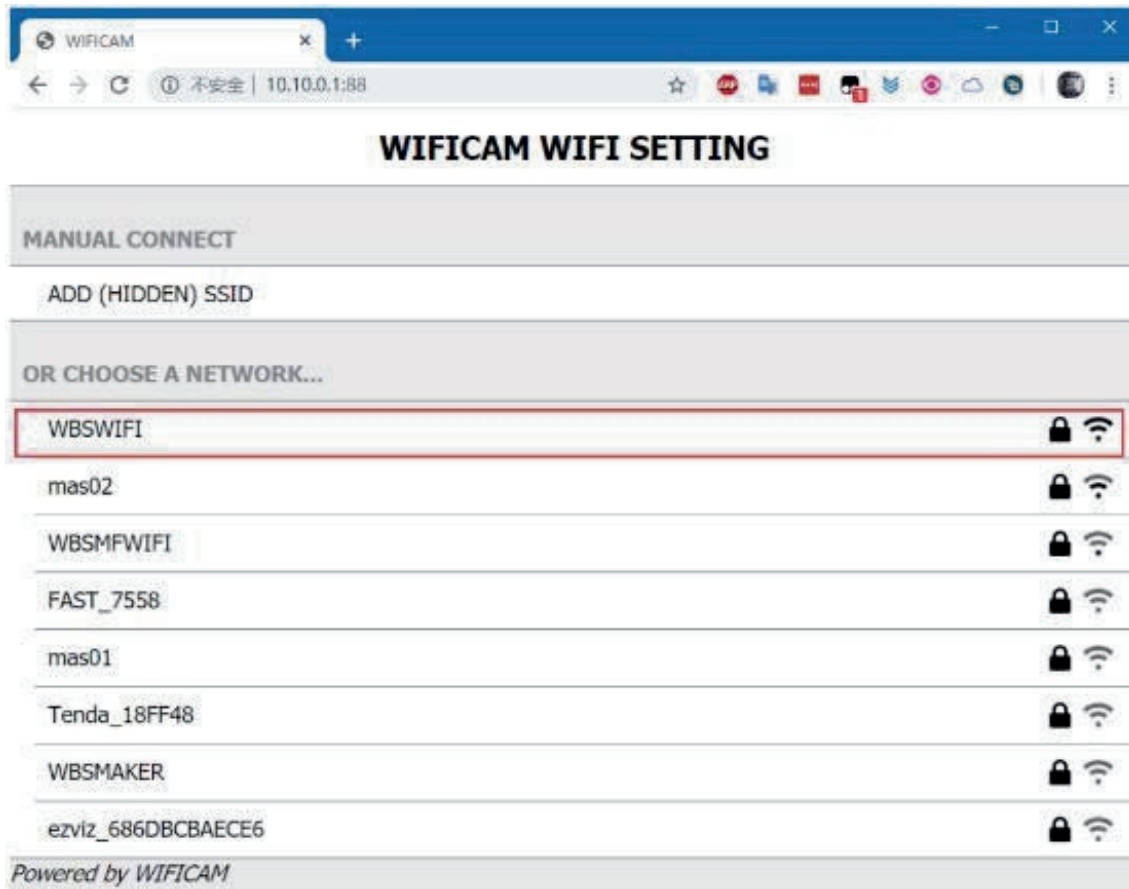


Step2: Use your computer or mobile phone connect this WIFI.

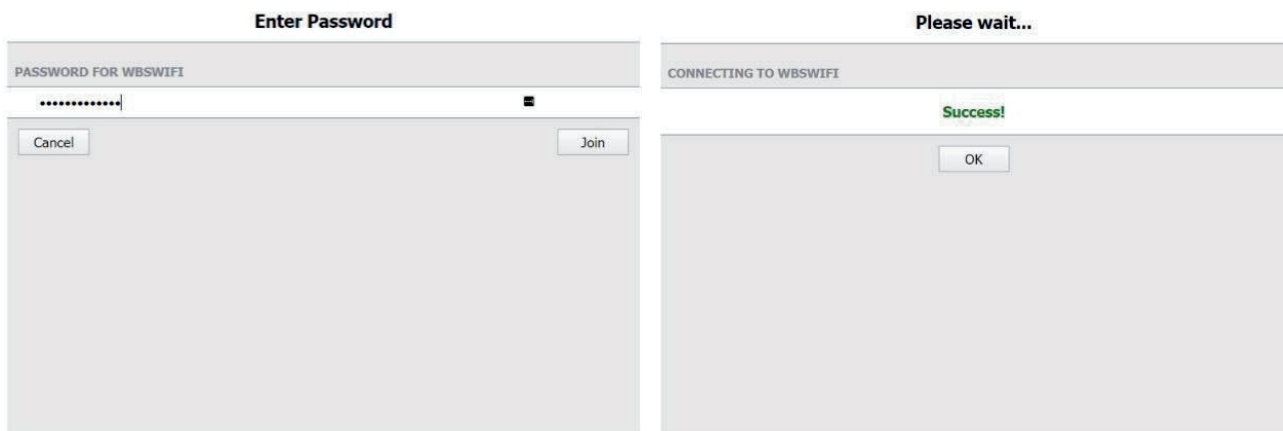
Step3: Use a browser to access

<http://10.10.0.1:88/>

Then you can access to the WIFI network management page



Step4: On this page, it can automatically scan the nearby WIFI network. Click on your network name, enter your WIFI password, and wait a moment, WIFICAM will try to connect to the network.



Step5: After WIFI is connected to the Internet, the obtained IP address will be displayed on the printer screen.

Wi-Fi Device/Machine Info This is only available in the WiFi version. The basic version doesn't have Wi-Fi feature.



1. On the Main Menu, rotate the Knob until the Control option is highlighted, then press the Knob to enter the Control Menu.
2. Rotate the Knob until the Wi-Fi Network option is highlighted, then press the Knob to enter the Wi-Fi® Network Menu.
3. Rotate the Knob until the Wi-Fi Device Info option is highlighted, then press the Knob to display the Machine Info Screen, which shows the Wi-Fi module name, Wi-Fi module firmware version number, and the IP address.
4. Press the Knob to return to the Wi-Fi Network Menu.

Firmware Update

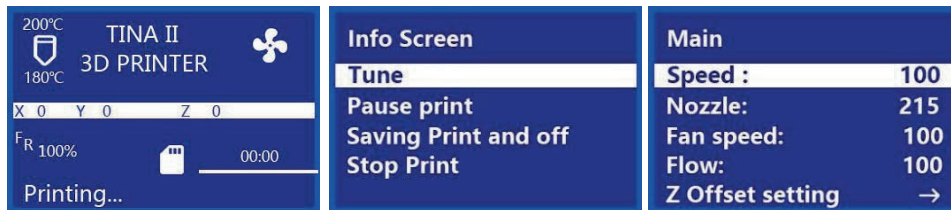
In the event that a firmware update is available, it will be made available on the internet. Perform the following steps to check for the existence of a firmware update and to perform the update, if one is available.



1. On the Main Menu, rotate the Knob until the Control option is highlighted, then press the Knob to enter the Control Menu.
2. Rotate the Knob until the Wi-Fi Network option is highlighted, then press the Knob to enter the Wi-Fi® Network Menu.
3. Rotate the Knob until the Wi-Fi OTA Update option is highlighted, then press the Knob. The OTA Update Screen will display. If new firmware has been found, press

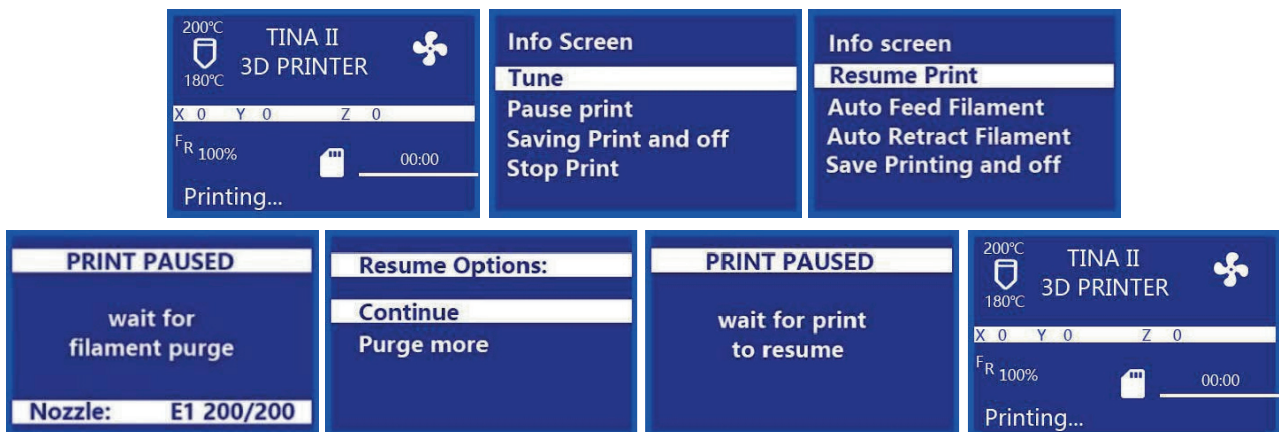
the Knob to begin updating the Tina 2 firmware. If no new firmware is available, press the Knob to return to the Wi-Fi Network Menu.

Changing Parameters While Printing



1. With the Printing... Screen displayed, press the Knob to display the Print Control Menu.
2. Rotate the Knob until the Tune option is highlighted, then press the Knob to display the Tune Menu.
3. Rotate the Knob until the parameter you want to adjust is highlighted, then press the Knob to displays that Adjust Screen for the selected parameter.
4. Change the value as desired, then select the Tune option to return to the Tune Menu.
5. Repeat for other parameters, as desired.

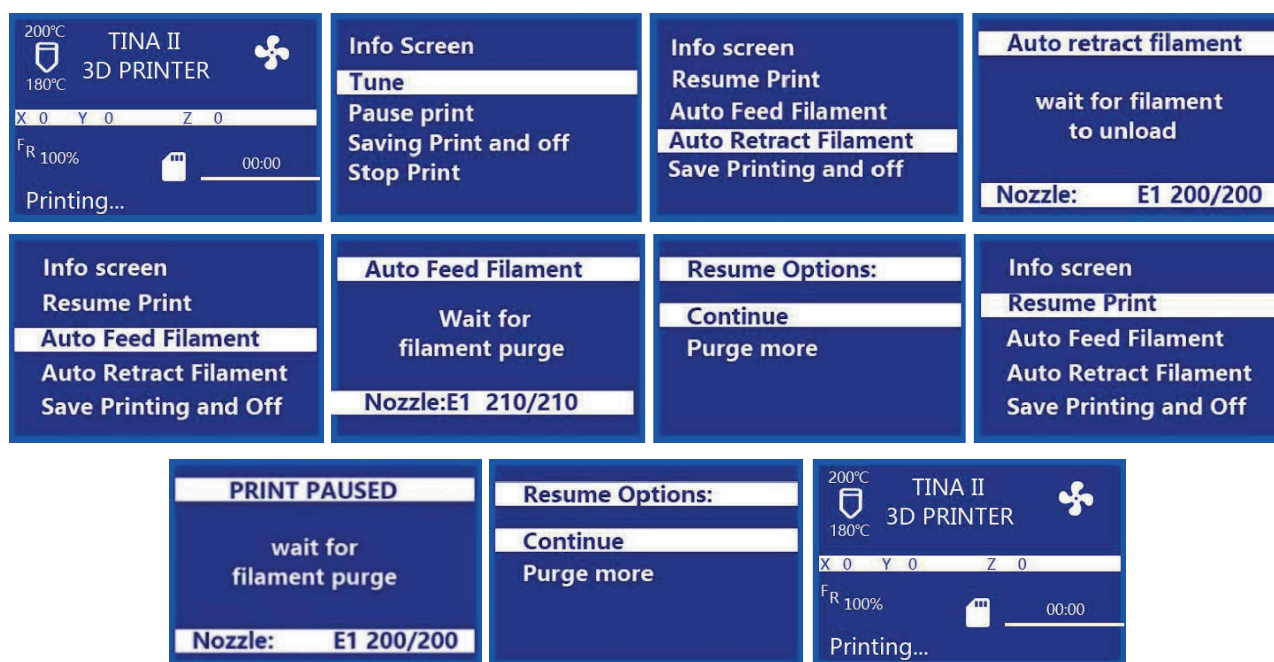
Pausing and Resuming Print



1. With the Printing... Screen displayed, press the Knob to display the Print Control Menu.

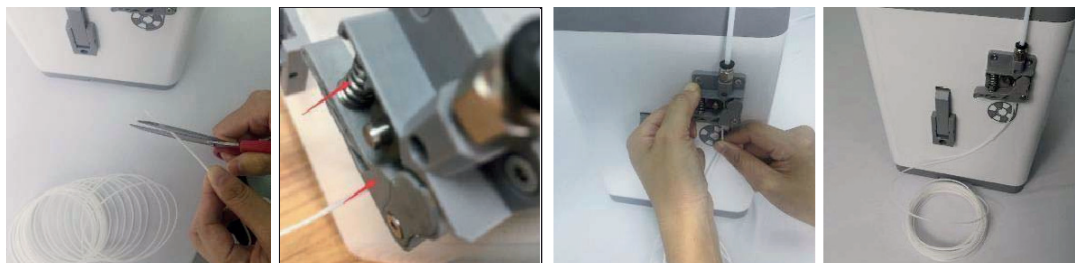
2. Rotate the Knob until the Pause Print option is highlighted, then press the Knob to pause the print. The printer will finish the current layer, then will pause printing.
3. When you are ready to resume the print, rotate the Knob until the Resume Print option is highlighted, then press the Knob to resume the print. The printer will heat the Nozzle to the target temperature, extrude a small amount of filament, then display the Resume Options Menu.
4. Clean the extruded filament, rotate the Knob until the Continue option is highlighted, then press the Knob to resume printing.

Changing Filament While Printing



1. With the Printing... Screen displayed, press the Knob to display the Print Control Menu.
2. Rotate the Knob until the Pause Print option is highlighted, then press the Knob to pause the print. The printer will finish the current layer, then will pause printing.
3. Rotate the Knob until the Auto Retract Filament option is highlighted, then press the Knob to start the Unloading Filament process.
5. Once the filament has been unloaded, replace the spool of filament on the Filament Holder with a new spool of filament.

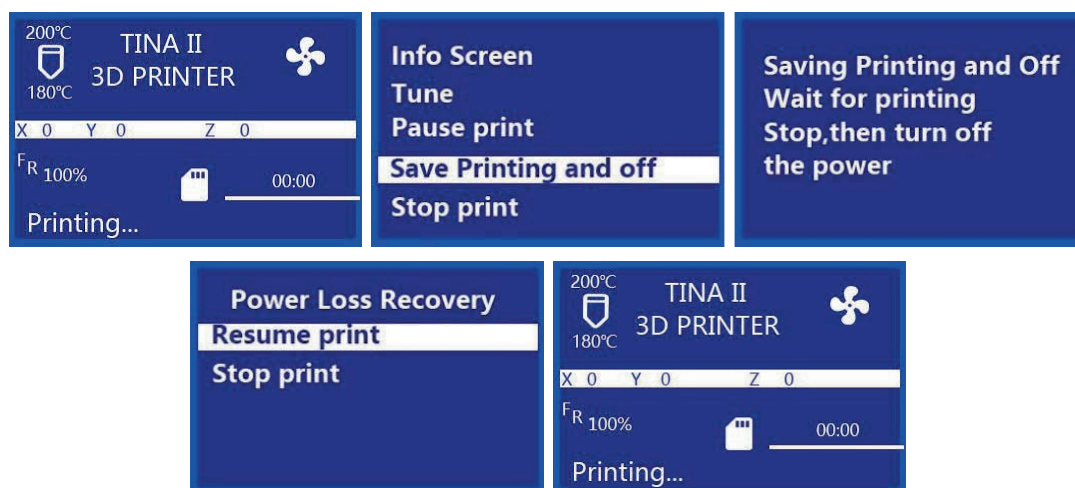
6. Using a pair of scissors or side cutters, cut about an inch off the end of the filament, then gently straighten the end of the filament. Squeeze the lever on the Extruder, insert the filament into the bottom until you encounter resistance, then release the lever.
7. Rotate the Knob until the Auto Feed Filament option is highlighted, then press the Knob



to start the Loading Filament function. The Nozzle will heat to the target temperature, if necessary, then will load the filament and extrude a small amount. Clean the extruded filament.

8. Rotate the Knob until the Continue option is highlighted, then press the Knob to continue printing with the new filament.

Saving a Print

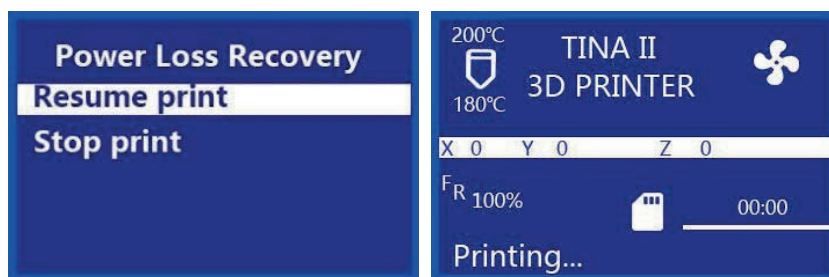


The Tina 2 printer features the ability saving a print in progress, so that you can turn the printer off and resume printing at a later time. Perform the following steps to save and resume a print in progress.

1. With the Printing... Screen displayed, press the Knob to display the Print Control Menu.

2. Rotate the Knob until the Save Printing and Off option is highlighted, then press the Knob to save the print.
3. Wait for printing to stop, then turn the printer off.
4. When you are ready to continue the print, turn the printer on. The Power Loss Recovery Menu will display.
5. Rotate the Knob until the Resume Print option is highlighted, then press the Knob to continue the print. The printer will heat the Nozzle to the target temperature, then will resume the print.

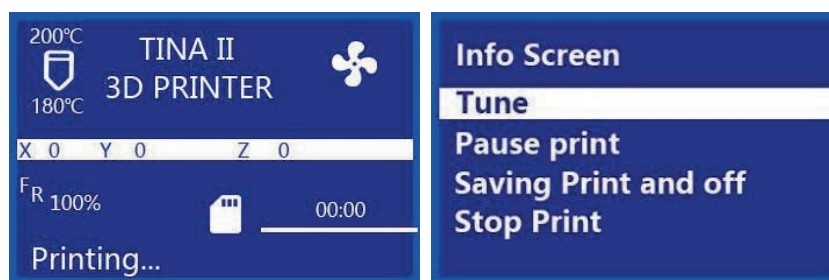
Continuing a Print After Power Loss



In the event that power is lost for any reason, the printer will remember where it was in the print process when power was lost. Perform the following steps to continue the interrupted print.

1. Turn the printer on. The Power Loss Recovery Menu will display.
2. Rotate the Knob until the Resume Print option is highlighted, then press the Knob to continue the print. The printer will heat the Nozzle to the target temperature, then will resume printing.

Canceling a Print in Progress

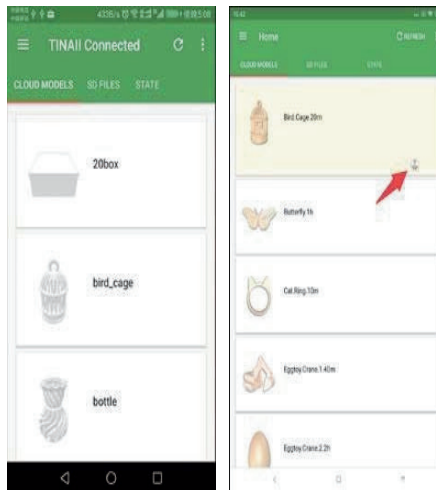


1. With the Printing... Screen displayed, press the Knob to display the Print Control Menu.

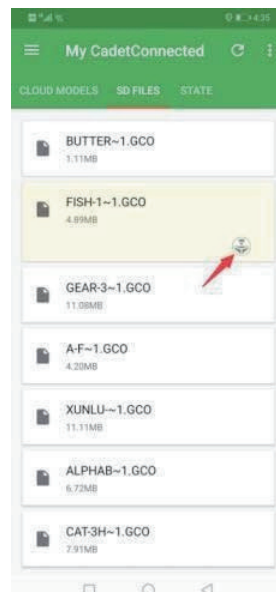
2. Rotate the Knob until the Stop Print option is highlighted, then press the Knob to cancel the print.

Printing with the App This is only available in the WiFi version. The basic version doesn't have this feature.

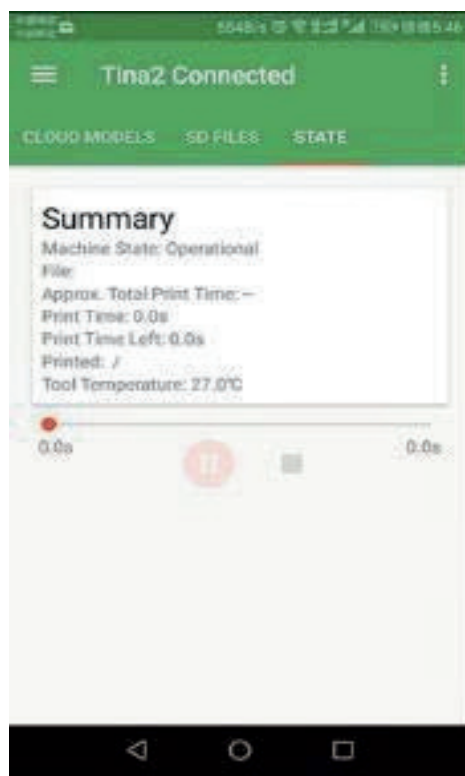
1. Launch the PoloPrint Pro app. The app will list models on the cloud. Each model's "card" shows the approximate amount of time it will take to print. To print a model, touch the model's "card", then touch the icon that appears in the lower right corner of the "card". The app will download the model file from the cloud. When the download is finished, it will start printing automatically.



2. If you want to view the files on the microSD™ card, touch the SD FILES tab at the top of the screen. The app will display the files on the microSD card. To print a file, touch the "card", then touch the icon in the bottom right corner of the "card".



3. While the model is printing, you can see the progress of the print by touching the STATE tab at the top of the screen.



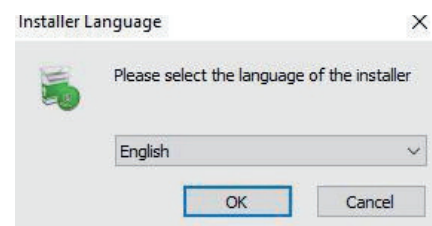
WIIBUILDER SLICING SOFTWARE

Installation

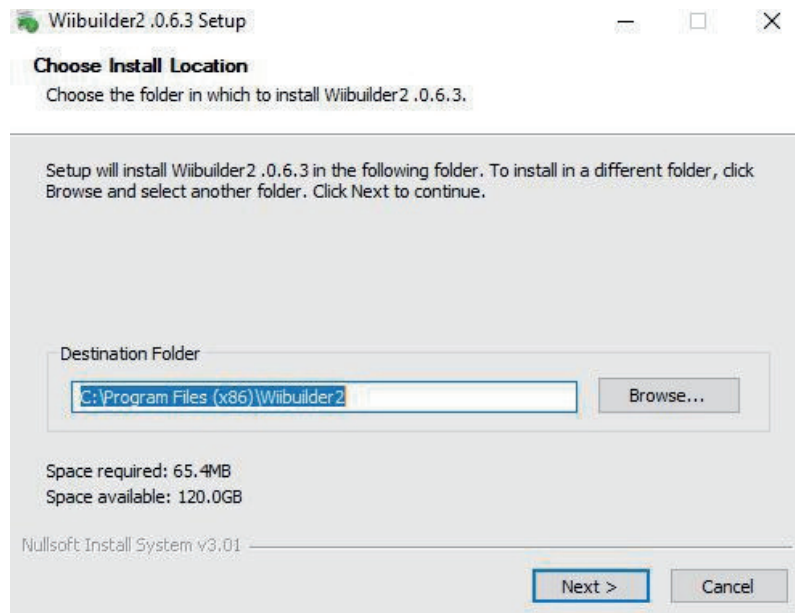
This printer includes a copy of WiiBuilder Slicing Software to turn 3D models into .gcode files for printing from the microSD™ card. The software on the included microSD card has been configured for use with the Tina 2 printer.

To install the software, double click the Wiibuilder2.0.6.3_WEEDO_setup.exe (**Software version will be continuously updated**) installation file on the microSD card, then follow the steps below.

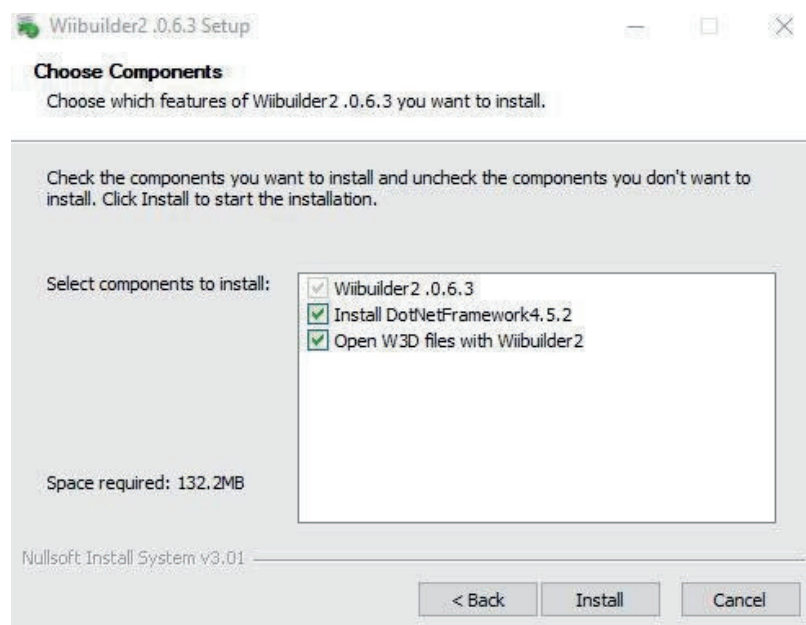
1. The installation wizard will first prompt you to select the installer language. The available languages are English, Japanese, and Simplified Chinese. Select your preferred language and click the OK button to continue.



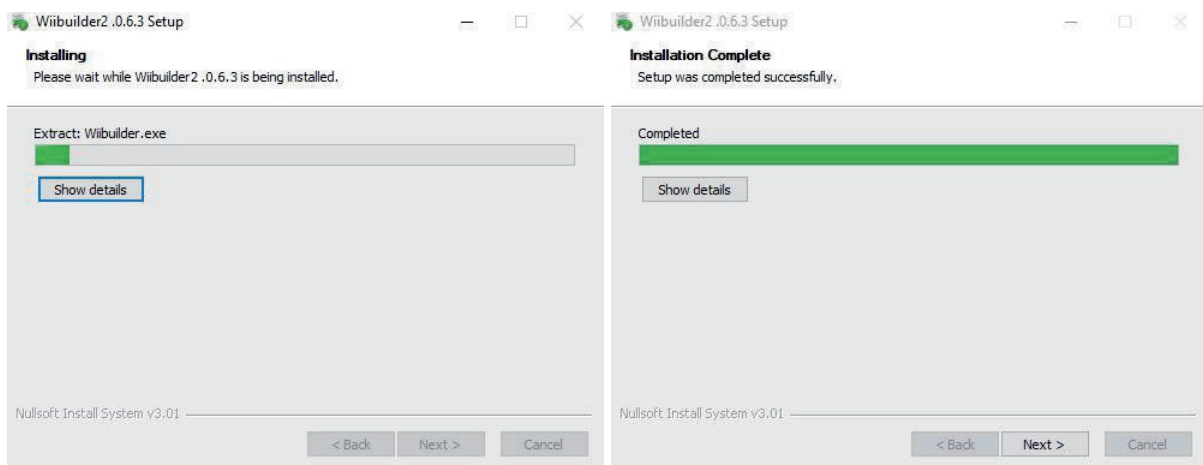
- The installer will then prompt you to select the directory to which WiiBuilder will be installed. If you do not want to use the default directory, click the Browse... button to open the file browser and select your preferred directory. Click the Next > button to continue.



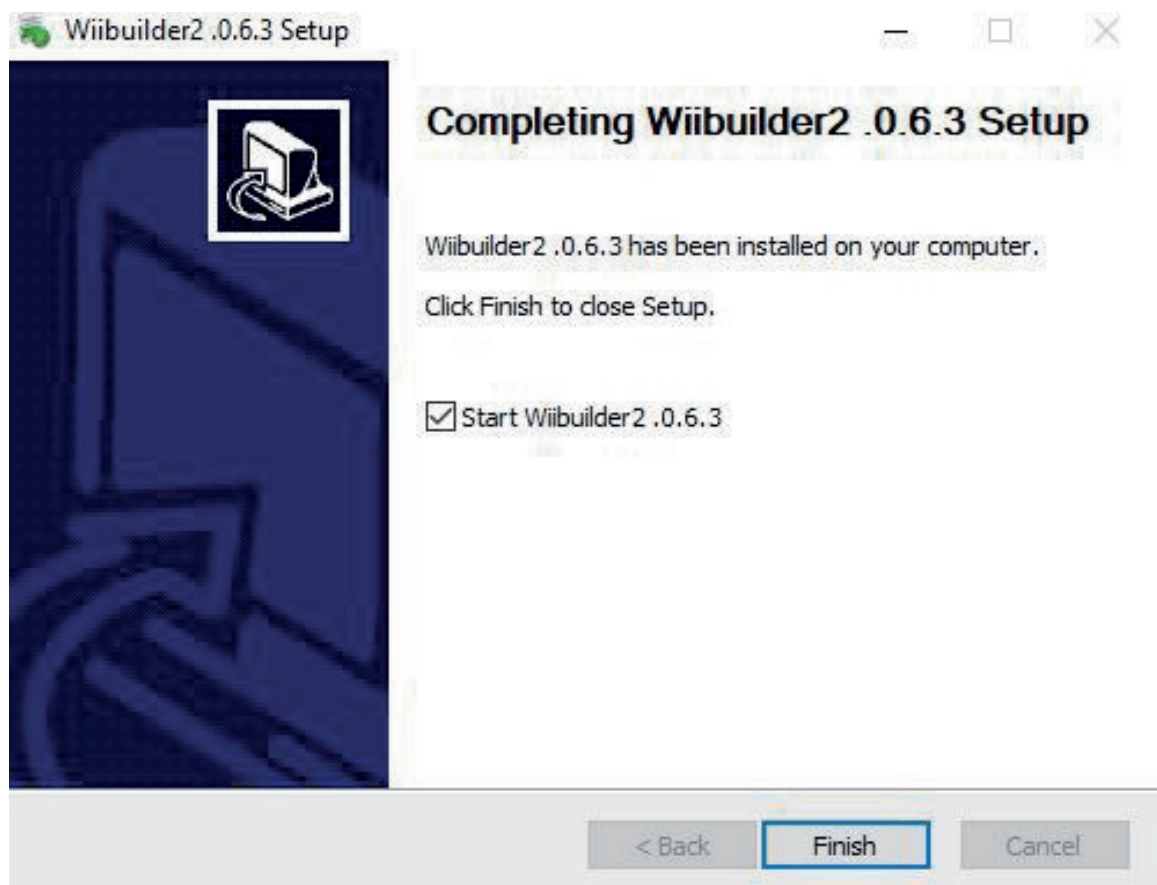
- The installer will prompt you to select the components you want to install. If you are unsure of which components you need, select all components. Click the Install button to start the installation process. If you already have a component installed, the installer will inform you and skip installation of that component.



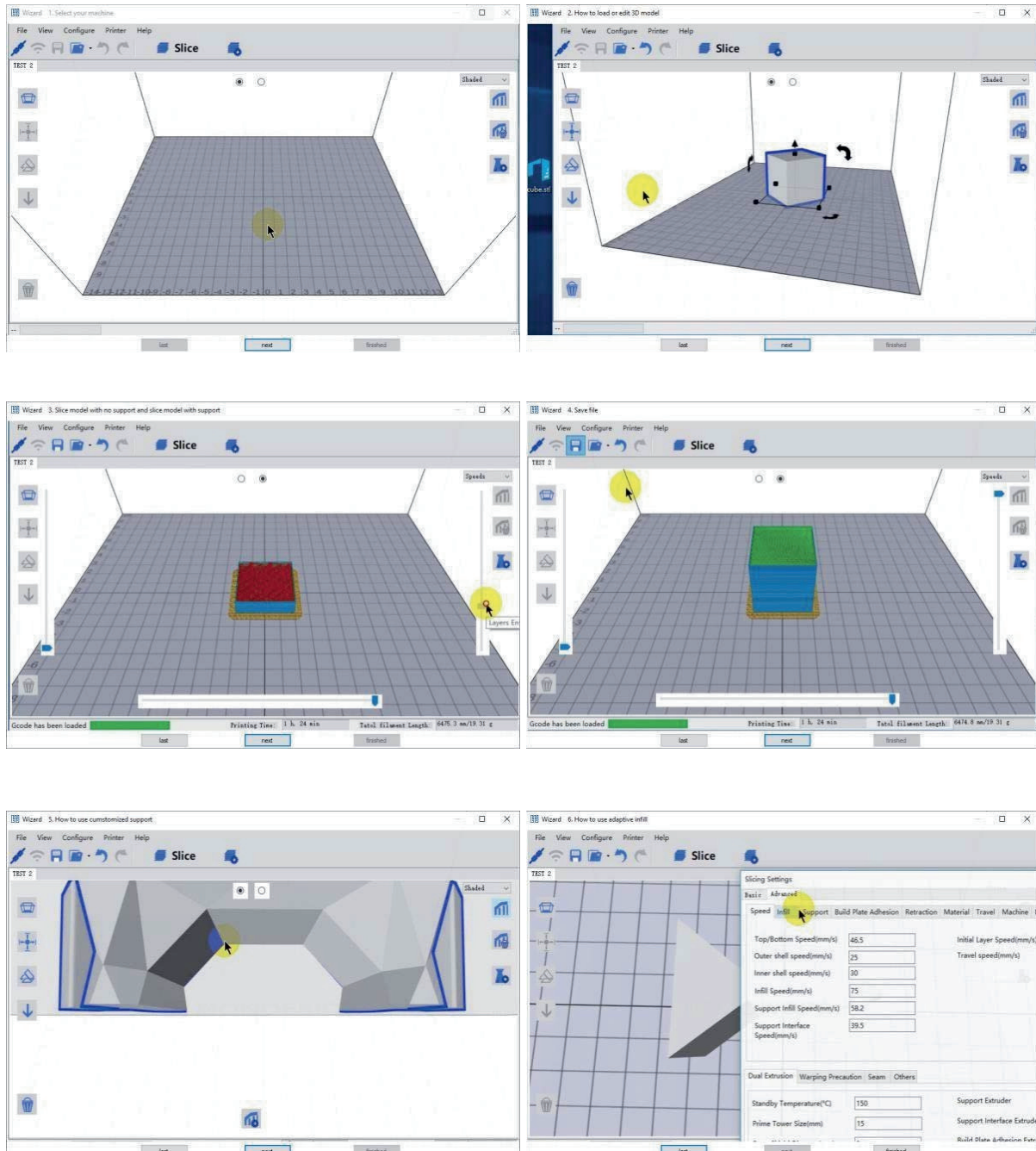
- The install wizard will extract the installation files and install the program. After installation is complete, click the Next > button to continue.



- By default, the installer has the Start Wiibuilder 2.0.6.3 option should be checked. If not, check the box, then click the Finish button to close the installer and launch WiiBuilder.



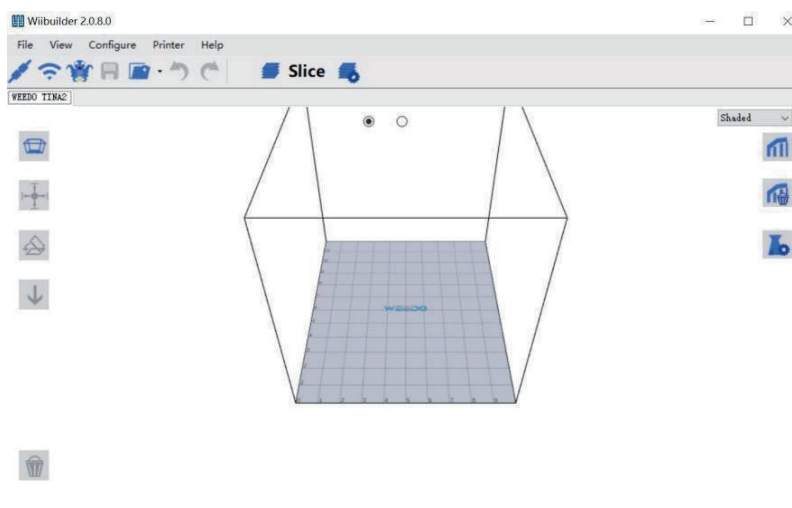
6. Once WiiBuilder launches, it will launch a wizard that will display a series of six animated pages that show how to perform several common functions. Click the next button to view the next page. If you want to see a previous page, click the last button. Once all six pages have been displayed, click the finish button to close the wizard.



7. WiiBuilder now prompts you to select the Machine Type. Select the WEEDOTINA 2 entry, then click the OK button to continue.



8. WiiBuilder is now configured and ready for use! If you want to see the wizard again, click Help > RunWizard. If you want to read the product manual, check the advanced function of Wiibuilder in TF card.



TECHNICAL SUPPORT

WEEDO is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website www.weedo.ltd or through email by sending a message to saleservice@wiibootech.com. Check the website for support times and links.

SPECIFICATIONS

Model	TINA2 Basic/TINA/ TINA2 Pro
Printing Technology	Fused Filament Fabrication (FFF)
Supported Filament Types	PLA, PLA Pro,TPU
Filament Diameter	1.75mm
Nozzle Diameter	0.4mm
Maximum Nozzle Temperature	250°C
Build Volume	3.9" x 4.7" x 3.9" (100 x 120 x 100 mm)
Printing Accuracy	0.1 - 0.4 mm
Leveling Method	Automatic
Supported Slicing Software	WiiBuilder, Cura
Supported Model File Types	.STL, .OBJ, .gcode
Supported Inputs	microSD™ card, [Wi-Fi®, WLAN, USB(<i>Based on the printer Model</i>)]
Maximum microSD Card Capacity	8GB
Supported microSD Card Formatting	FAT32, 4096 bytes per sector
Dimensions	8.5" x 7.9" x 10.6" (215 x 200 x 270 mm)
Weight	6.6 lbs. (3.0 kg)

Trouble Shooting Guide

Failed to boot

Check whether the 20P cable is short-circuited

video: 20P Cable troubleshooting

- If 20P cable is broken, please replace it
- Video: How to replace the 20P cable

Check whether the adapter is damaged

If 20P cable is broken, please replace it

If you have performed the troubleshooting above and the issue has not been resolved, please contact support@weedo3d.com

No filament coming out

The filament is tangled

relieve the tangle or replace a new filament

Extruder not working

- Check if the extruder motor cable is loose, please tighten the cable
- Check if the extruder motor cable is damaged, if yes, please replace a new one

Video: Extruder not working troubleshooting

Video: Mainboard wiring decomposition

Fan not turning

- Check if the fan cable is loose, please tighten the cable
- Check if the fan cable is damaged, if yes, please replace a new one

Please refer to video: Adapter board wiring decomposition to find where is the fan cable

Video: How to replace the fan

Nozzle Clogged

Video: How to determine if the nozzle is clogged

How to fix clogged nozzle

- Check if the feed tube is inserted into the bottom of the throat
 - Insert filament tube down until it can't be inserted down anymore
- Please try to clean the nozzle
 - Video: How to clean the nozzle
- If the nozzle is still clogged frequently after cleaning the nozzle, please replace a new nozzle or new nozzle kit
 - Video: How to replace the nozzle

Homing Failed

Check whether the nozzle moves up and down (Z motor), left and right (X motor), and whether the platform moves back and forth (Y motor). If not, the motor cable may be loose or the belt may fall off

Check whether there is a belt falling off fault

Video: How to adjust the X belt

Video: How to adjust the Y belt

Check whether the motor cables are loose, please tighten the cables

Video: Mainboard wiring decomposition

During the movement of the nozzle and platform, whether there is a constant impact and noise occurs, if so, it may be that the corresponding endstop is in poor connection or broken.

Please replug the corresponding endstop cable according to the direction of abnormal sound. If the fault still exists after unplugging and plugging, the endstop and endstop cable need to be replaced.

Video: Mainboard wiring decomposition

Video: Homing Failed Troubleshooting

E1 Heating Failed

Check whether the nozzle cable is loose or broken and the terminal of the nozzle wire is detached from the plastic shell

Reinsert the terminal into plastic shell

Please re-plug the nozzle cable, if the problem still can't be solved, please replace a new nozzle kit

Video: How to replace the nozzle kit

Video: How to remove the nozzle kit

Video: Nozzle Kit Disassembly

Check whether the 20P cable is loose or broken.

Please re-plug the 20P cable, if the problem still can't be solved, please replace a new 20P cable

Video: How to replace 20P cable

If the problem cannot be solved by following the above steps, then need to replace the motherboard

The nozzle gouge into the plate

Check if model is sliced with Wlibuilder or our customized Cura

Please use Wlibuilder or our customized Cura to slice

Proximity switch failure

Check whether the proximity switch cable is loose or proximity switch is broken

Video: Proximity Switch Troubleshooting

Check whether the position of the proximity switch is too high

Video: how to adjust the height of the proximity sensor

Video: Adjust z offset of WEEDO TINA2

If the proximity switch broken, please replace it

Video: How to replace the proximity switch

Check if the gap between the nozzle and the platform is too small

Adjust the offset to make sure the distance between the nozzle and the platform is a piece of A4 paper

Video: Adjust z offset of WEEDO TINA2

Trouble Shooting Guide

Spaghetti halfway through printing

The position of the proximity switch is lower than nozzle

Make sure the proximity switch is 1mm higher than nozzle

Video: how to adjust the height of the proximity sensor

Video: Adjust z offset of WEEDO TINA2

Check if the gap between the nozzle and the platform is too large

Adjust the offset to make sure the distance between the nozzle and the platform is a piece of A4 paper

Video: Adjust z offset of WEEDO TINA2

For model that has complex overhangs or extremities, check if support is added when slicing

If your model has complex overhangs or extremities be sure to add supports to hold the print together during the process.

If you don't know how to add support, please contact support@weedo3d.com

Whether the coupling gap is too large

If the gap is large, please replace a new coupling

Picture: coupling gap

Printer does not perform 3-point leveling

Belt is loose or dropped

Video: How to adjust the Y belt

The nozzle cannot be lowered to the platform during automatic leveling

Proximity switch failure

Check whether the proximity switch cable is loose or proximity switch is broke

Video: Proximity Switch Troubleshooting

Check whether the position of the proximity switch is too high

Video: how to adjust the height of the proximity sensor

Video: Adjust z offset of WEEDO TINA2

If the proximity switch broken, please replace it

Video: How to replace the proximity switch

Whether the coupling gap is too large

If the gap is large, please replace a new coupling

Picture: coupling gap

Wrapping

Check if the gap between the nozzle and the platform is too large

Adjust the offset to make sure the distance between the nozzle and the platform is a piece of A4 paper

Video: Adjust z offset of WEEDO TINA2

Stick masking paper on the platform or apply solid glue

Add brim or raft for the model

Reduce the printing speed of the first few layers

Choose an air-conditioned room or use an airtight box to print

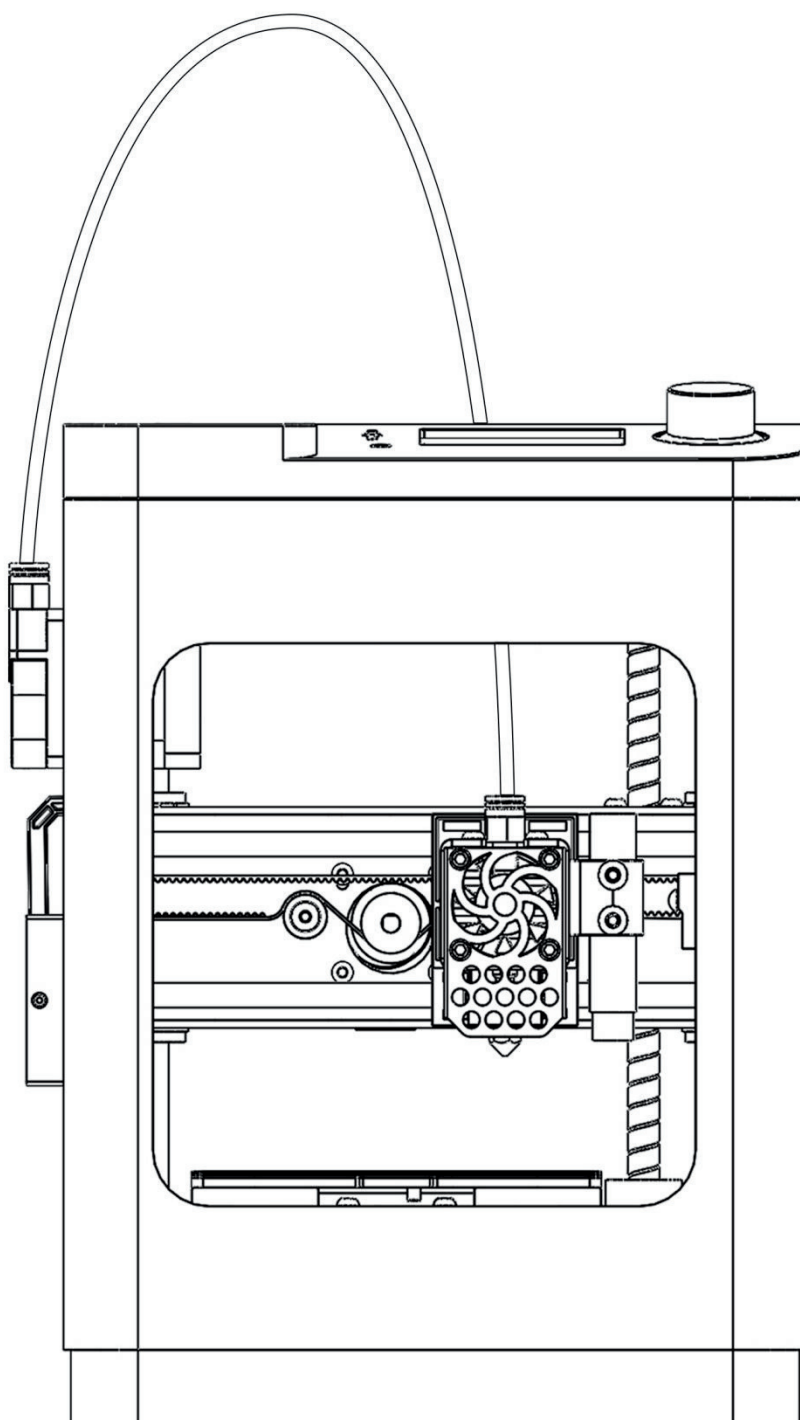
3 D / P R I N T E R

WEEFUN

3D
PRINTER

EN

USER'S MANUAL



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1. NOTES

PLEASE READ THIS MANUAL BEFORE USING THE DEVICE, PAYING EXTRA ATTENTION TO THESE SAFETY WARNINGS AND GUIDELINES. PLEASE KEEP THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE.

1.1. Safety Warnings

- ☐ Do not touch the nozzle or stepper motors, when the 3D printer is printing or just finished the printing job, the nozzle temperature is up to 230°C.
- ☐ Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- ☐ Do not touch the device, the power cord, or any other connected cables with wet hands.
- ☐ Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- ☐ Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
Unplug this device from the power source when not in use.
- ☐ Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- ☐ Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
Ensure that the 3D printer is turned off and unplugged from its power source before making repairs or performing service.

1.2. Filament

To use this 3D printer, please use the filament provided by our company. Filaments sold in the retail market have different specifications and uneven quality, which can easily clog and damage the nozzle and motor. If the 3D printer fails due to the use of third-party consumables, the warranty will not be granted.

If the filaments are not used for a long time after unpacking, please seal them and preserve them. PLA will absorb moisture when exposed to air for a long time, affecting the quality of printed products.

1.3. Environmental Requirements

This 3D printer is intended for indoor use only. The ideal ambient temperature is 15°C - 25°C. When the ambient temperature is lower than 10°C, the printing model is hard to adhere to the platform. When the ambient temperature is lower than 0°C, the device will not startup. When the ambient temperature is higher than 30°C, the print quality will decline significantly and the nozzle may be clogged.

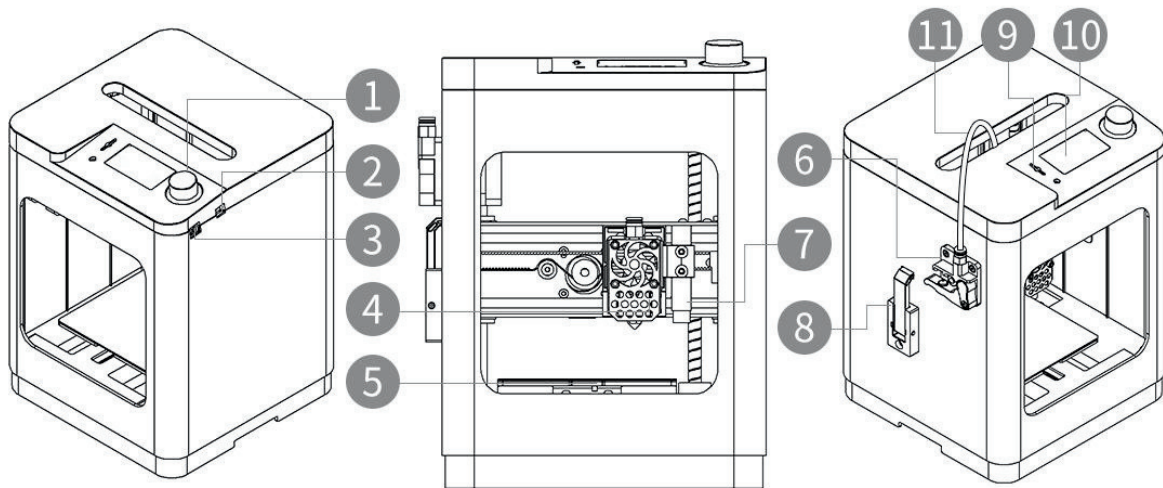
2. INTRODUCTION

2.1. Specification

Model

	TINA2S
Build Volume	100 x 105 x 100mm /3.9''x 4.0''x 3.9''
Nozzle Diameter	0.4mm
Layer Thickness	0.1-0.4mm
Platform Material	Flexible Spring Steel
Leveling Technology	3 Points Auto Bed Leveling
Maximum Nozzle Temperature	245°C
Motherboard	Silent Motherboard with TMC2208
Maximum Heated Bed Temperature	60°C
Maximum Printing Speed	200mm/s
Printing Precision	±0.1mm
Product Weight	3Kg/6.6lbs
Power Supply	AC 100-240V, DC 12V5A, 60W
Filament Diameter	1.75mm
Supported Filament Type	PLA / PLA+ / TPU
Supported Filament Weight	100g-250g, with built in filament holder 1Kg, with filament rack (extra purchase)
Supported Slicing Software	Wiibuilder (Windows/MacOS) Cura-WEEFUN (Windows/MacOS) OctoPrint (Pi OS/Linux)
Slicer Input File Formats	STL/OBJ/AMF
Printing Formats	Gcode
Input Method	TF Card / WIFI / USB / APP
APP	PoloPrint Pro (Android/IOS)

2.2. Product Overview



1.Knob

2.Powersocket

3.USB socket

4. Hotend (Heat break, Heated aluminum block, Nozzle)

5. Heated Bed Platform

6.Extruder

7.ProximitySensor

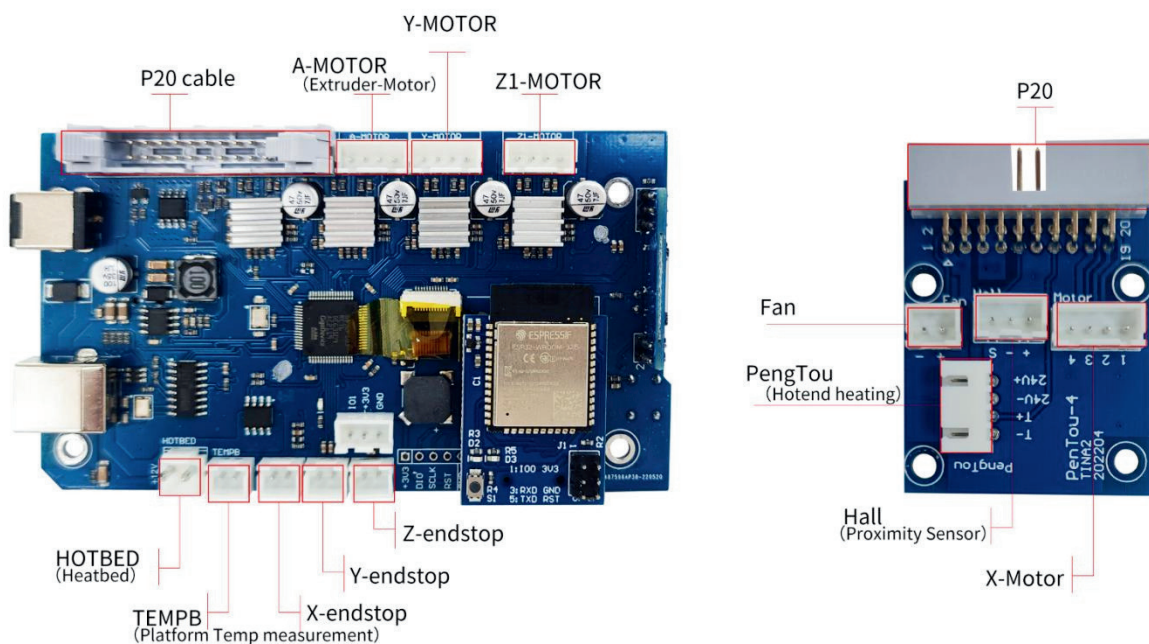
8. Filament Holder

9.TFCardslot

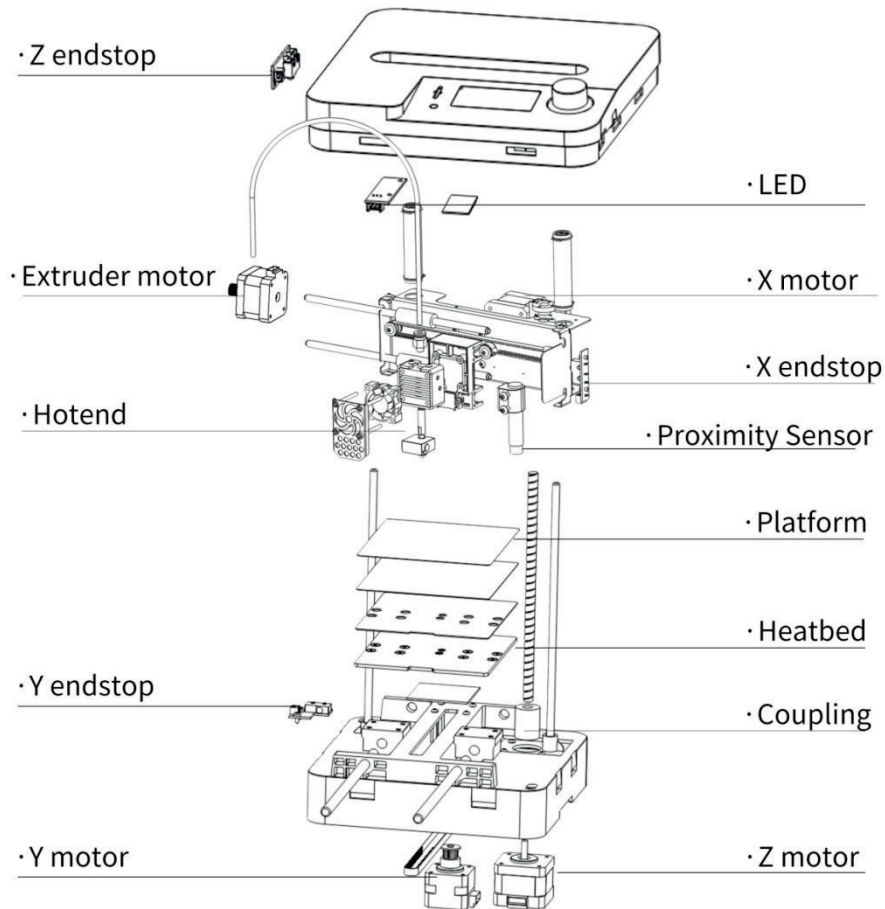
10.Screen

11. Filament Tube

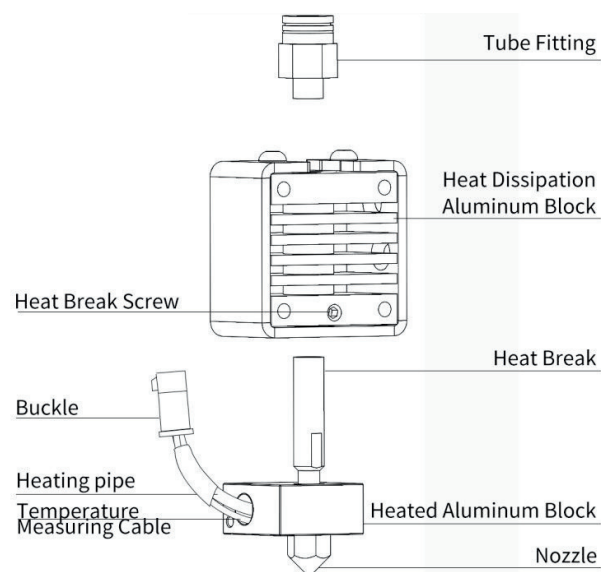
2.3.Motherboard and Adapter Board



2.4. Internal Structure

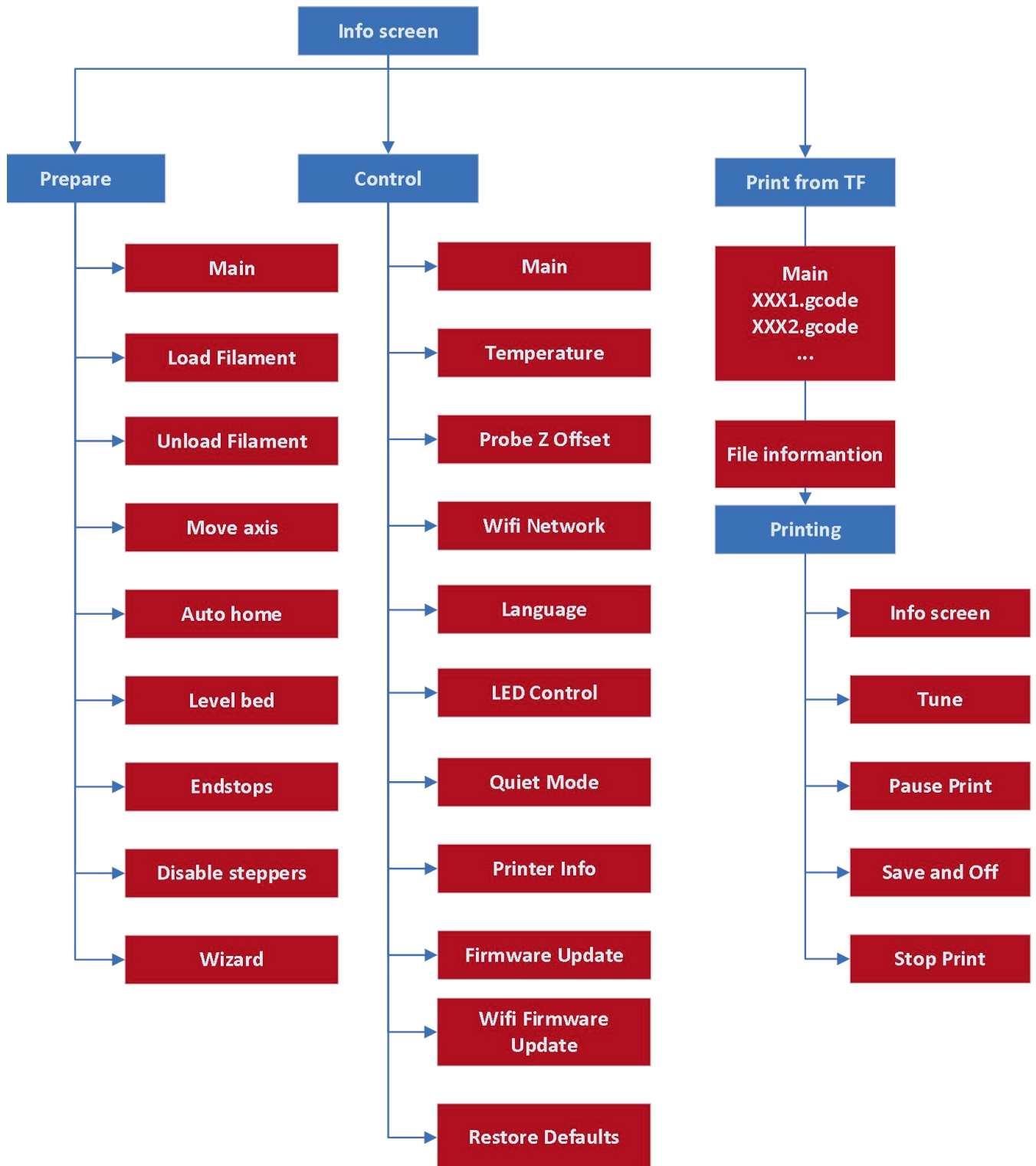


Hotend:



3. SYSTEM MENU

In the operation panel area on the top of the 3D printer, the left side is the TF card slot. The print data file is stored in the TF card. In the middle is an LCD screen, and on the right is a knob button. Press the knob button to open the system menu.



3.1. Basic Menu Control



Turn the knob clockwise to move the highlight down on the menus or to decrease a value.

Turn the knob counterclockwise to move the highlight up on the menus or to increase a value.

Press the knob to enter the submenu, select the highlighted option, or accept the edited value.

3.2. Info Screen

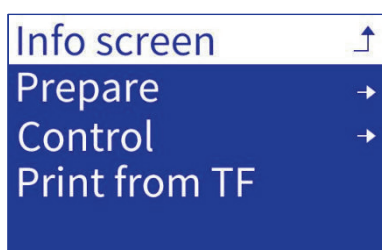
After TINA2S starts up, the Info Screen is displayed.



Info Screen displays the status of the main components, including: Nozzle temperature (preset temperature and actual temperature), heated bed temperature (preset temperature and actual temperature), network connection status, XYZ position information, remaining printing time, and TF card status.

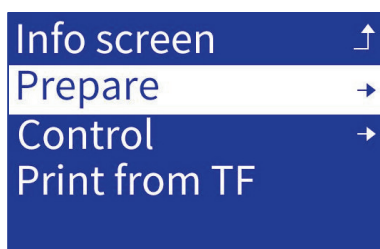
The bottom bar of the screen is the information bar, which displays the network status after power on. When the device is not connected to the Internet, it will display "OFF". After the device is connected to the WIFI network, it will display the IP address of the device.

Press the knob to open the main menu.



- ☐ Info Screen: Displays the info screen.
- ☐ Prepare: Displays the prepare menu.
- ☐ Control: Displays the control menu.
- ☐ Print From SD: Displays the list of TF card files.

3.3. Prepare Menu



Press the knob to open the prepare menu. This menu has two screens, turn the knob to scroll the screen.



3.3.1. Load Filament

Automatically heats the nozzle and loads the filament.

Click the button to enter the automatic loading filament interface.



The nozzle will be heated to 210°C, then the extruder will feed the filament to the nozzle. During heating or extrusion, you can press the knob button to exit the current operation.

3.3.2. Unload Filament

Automatically heats the nozzle and unloads the filament.

Click the button to enter the automatic unloading filament interface.



The nozzle will be heated to 210°C, then the extruder will retract the filament from the nozzle. During heating or extrusion, you can press the knob button to exit the current operation.

3.3.3.Move Axis

Move axis can operate each stepper motor, which can be used to debug the 3D printer or troubleshoot. Click the button to enter the sub menu.

Main	↗
Load Filament	
Unload Filament	
Move axis	→
Auto home	

Prepare	↗
Move X	→
Move Y	→
Move Z	→
Extruder	→

Click "Move axis", click the adjustment buttons of X, Y, Z, and control the movement of the X, Y, and Z motors respectively. The distances of X.Y.Z axis: 10mm, 1mm, 0.1mm respectively. The distance of the extruder motor: 10mm, 1mm, 0.1mm. In the debugging interface of each axis, the knob can control the bidirectional operation of the axis motor.

1.Turn the knob to control the movement of X motor.

Prepare	↗
Move X	→
Move Y	→
Move Z	→
Extruder	→

Move X	
Move axis	↗
Move 10mm	→
Move 1mm	→
Move 0.1mm	→

Move X:	+100.0
---------	--------

2.Turn the knob to control the movement of Y motor.

Prepare	↗
Move X	→
Move Y	→
Move Z	→
Extruder	→

Move Y	
Move axis	↗
Move 10mm	→
Move 1mm	→
Move 0.1mm	→

Move Y:	+100.0
---------	--------

3.Turn the knob to control the movement of Z Motor.

Prepare	↗
Move X	→
Move Y	→
Move Z	→
Extruder	→

Move Z	
Move axis	↗
Move 10mm	→
Move 1mm	→
Move 0.1mm	→

Move Z:	+100.0
---------	--------

4.Turn the knob to control the movement of extrude motor.

Prepare	↗
Move X	→
Move Y	→
Move Z	→
Extruder	→

Extruder	
Move axis	↗
Move 10mm	→
Move 1mm	→
Move 0.1mm	→

Extruder:	+100.0
-----------	--------

NOTICE: 1. THE MOVEMENT RANGE OF EACH MOTOR IS 0-100MM, PLEASE PERFORM" AUTO HOME" FIRST, AND THEN JOG TO ENSURE THAT THE 3D PRINTER OBTAINS THE CORRECT COORDINATES OF THE NOZZLE. IF" AUTO HOME" IS NOT PERFORMED, THE 3D PRINTER WILL SET THE CURRENT POSITION AS THE ORIGIN POSITION, RESULTING IN A SMALLER MOVEMENT RANGE OF THE JOG OPERATION. 2. THE MOVEMENT OF EACH MOTOR IS CONTROLLED BY THE ENDSTOP OF EACH AXIS. WHEN THE ENDSTOP IS TRIGGERED, THE MOTOR MOVEMENT STOPS IMMEDIATELY. NOTE THAT IF THE ENDSTOP IS BROKEN OR NOT WIRED PROPERLY, IT MAY GENERATE A NO-TRIGGER OR FALSE-TRIGGER SIGNAL, CAUSING THE MOTOR TO FAIL TO STOP OR MOVE. 3. THE EXTRUDER MOTOR HAS THERMAL PROTECTION FUNCTION, AND IT IS ONLY ALLOWED TO MOVE WHEN THE TEMPERATURE OF THE NOZZLE IS GREATER THAN 170°C.

3.3.4.Auto Home

Click then "Auto home", the XYZ axes will move respectively, the 3D printer nozzle and platform will automatically return to the origin, and the movement will stop after touching the each endstop.



This function can be used for troubleshooting. If the motor or endstop fails, this function will display a fault prompt.

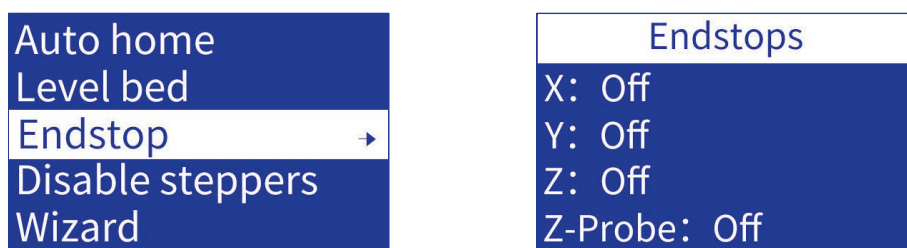
3.3.5.Level Bed

Click "Level bed", the system will use the proximity sensor to do an Auto Bed Leveling operation. At the beginning of each print, system will always do the auto level bed operation, so that the nozzle and the platform maintain a proper distance during printing.



3.3.6.Endstop

Click on "Endstop" to display the status of XYZ endstops and proximity sensor. Move the nozzle or the platform to touch the endstops, and you can observe the change of the state of each endstop or the proximity sensor.



This function can be used for fault diagnosis of endstops and proximity sensor. If the endstop and proximity sensor fail, the state will not change.

3.3.7.Disable Steppers

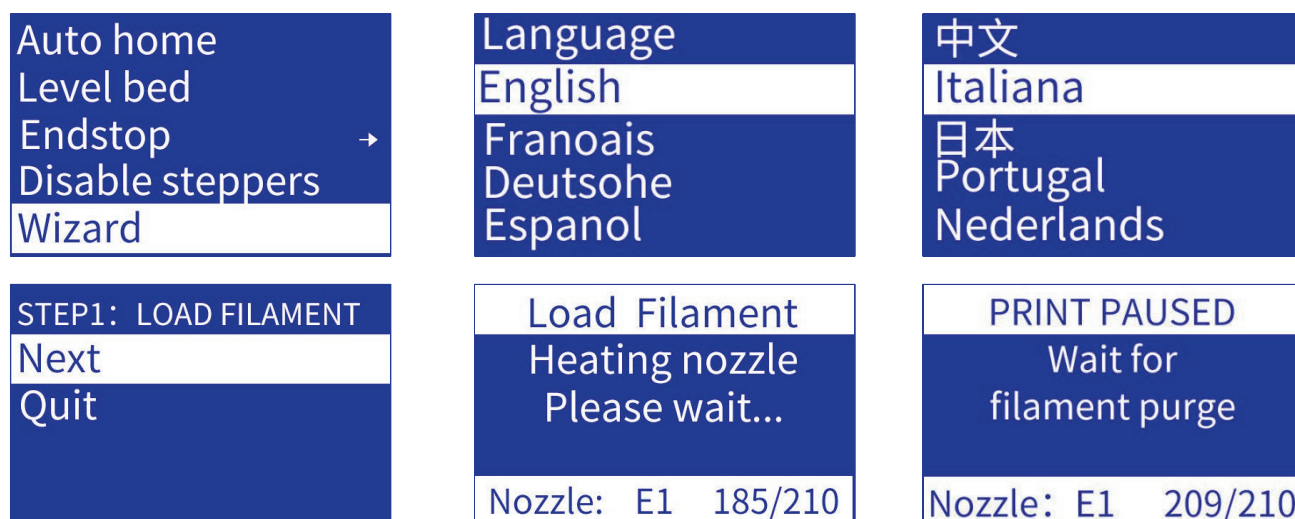
"Disable steppers" will release the locked of the stepper motors. It is convenient to move the nozzle and platform by hand.

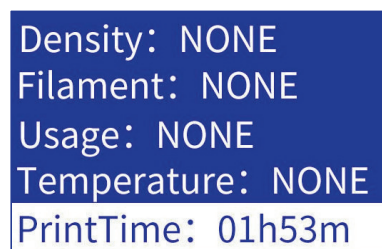
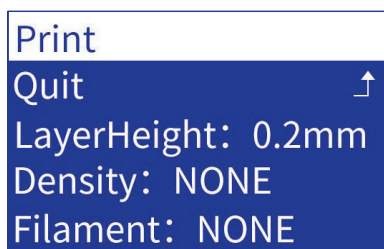
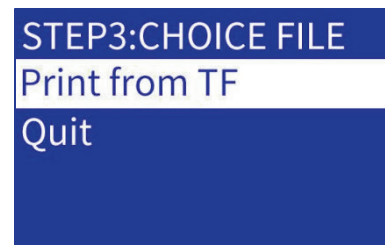
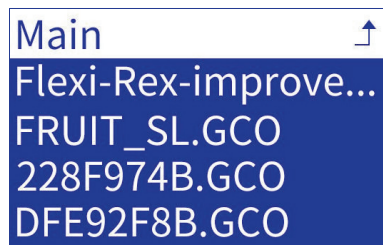
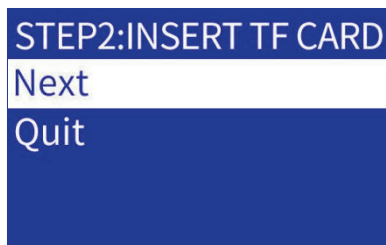


3.3.8.Wizard

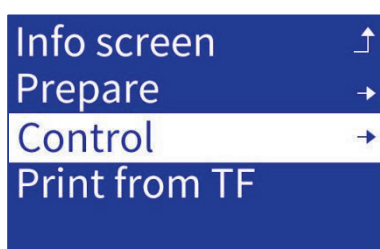
Click " Wizard" to prompt the steps of printing TF card. This function is suitable for novice printing.

Select "Language" - "Step 1 Load Filament", heat the nozzle to the specified temperature - "Step 2 Insert TF card" - "Step 3 Print from TF card", select the file and start printing.





3.4. Control Menu



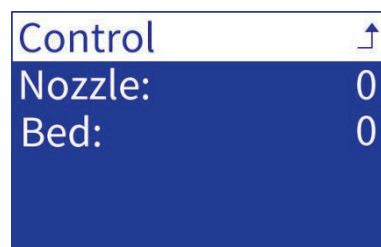
Press the knob to open the control menu. This menu has three screens, turn the knob to scroll the screen.



3.4.1. Temperature

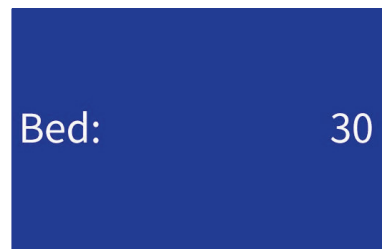
Manually set the temperature of the nozzle or the heated bed.

Click "Temperature " to enter the page. Select the nozzle or heated bed to be heated, and click the button to confirm.



Turn the knob clockwise to reach the desired temperature, and press the knob to confirm. After the 3D printer starts to heat up, the home page will display the real time temperature of the nozzle.

If you want to perform other operations at this time, you can click the operation knob to return to the info screen, and the heating process will continue in the background. If you want to stop the 3D printer preheating, you can enter the preheating menu again, and turn the knob counterclockwise to zero.



3.4.2.Probe Z Offset

After setting "Level bed", the gap between the nozzle and the platform needs to be set. If the gap is too small, the print head will scratch the platform or cause the nozzle be clogged. If the gap is too large, the printed model cannot stick to the platform well, and it is easy to cause the model to separate from the platform. It is recommended to recalibrate the Z offset after replacing the nozzle or proximity switch.

Click "Probe Z Offset" to enter the page.

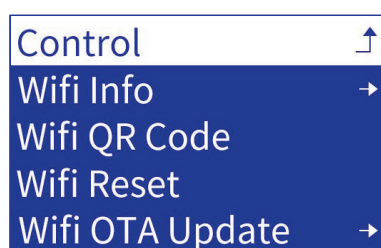


Turn the knob, the nozzle will adjust the height of the printing position up and down. Press the knob to confirm and save.

3.4.3.WIFI Network



Press the knob to open the submenu.



The network function of TINA2 has two connection modes, local mode, and remote mode. Local mode: In the same local area network, Wiibuilder or Cura on the computer can connect to the 3D printer, and perform remote control or send print files. To use local mode, the 3D printer should be connected to the local WIFI network. Remote mode: Use our APP, PoloPrint Pro, remotely control the 3D printer or download the print model. With the remote mode, you can remotely control the 3D printer from any location. To use remote mode, the 3D printer should be connected to the WIFI network and registered with the APP. Notice, a 3D printer can only be registered by one APP account.

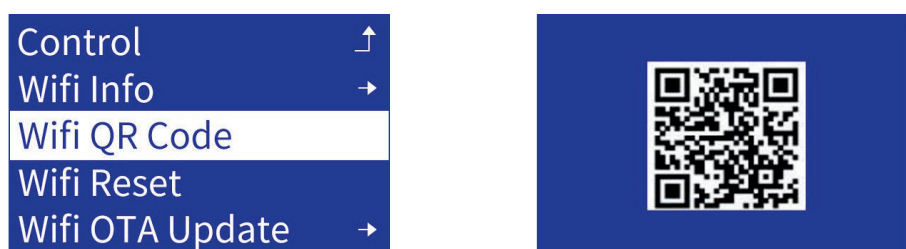
3.4.3.1.WIFI Info

Click "WIFI Info" to open the WIFI info screen. It will show the WIFI firmware version, the serial, IP address, AP name, and the connection status of the cloud server. Only after registering in the APP, the 3D printer will connect to the cloud server.



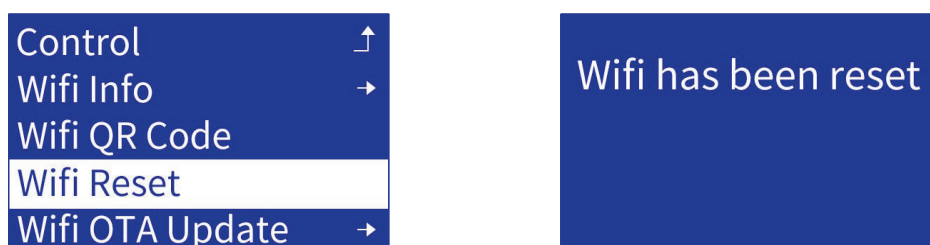
3.4.3.2.WIFI QR Code

Click "WIFI QR Code" to show the QR code generated by the device serial. Used for App scanning networking and cloud access.



3.4.3.3.WIFI Reset

Every time TINA2S is turned on, it will automatically connect to the WIFI network that was successfully connected to the last time. If you need to connect TINA2 to a new WIFI network, you should execute the reset WIFI setting function to clear the saved WIFI network information.



3.4.4.Language

Click "Language" to show the language list: Chinese, French, German, Italian, Japanese, Portugal, Dutch, and Turkish.

Turn the knob to choice the language you want to use, press the know to save and exit.



3.4.5.LED Control

Click "LED Control" to open the LED switch menu.

Press the knob to confirm and save.



3.4.6.Quiet Mode

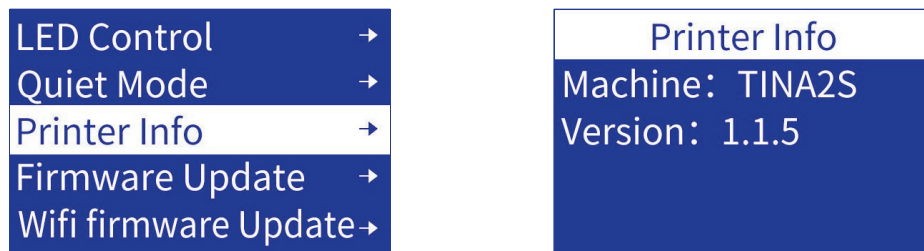
Click "Quiet Mode" to open the quiet mode switch menu. Quiet Mode significantly reduces the print speed to control the noise emitted.

Press the knob to confirm and save.



3.4.7.Printer Info

Click "Printer Info" to view the firmware version of the 3D printer.

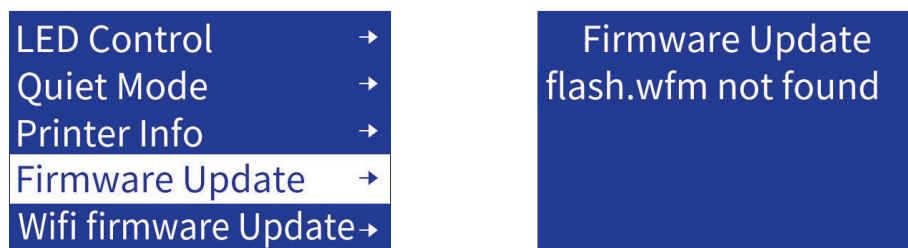


3.4.8.Firmware Update

1. Download and copy the motherboard firmware file to the root directory of the TF card. The suffix of the firmware file is wfm. If there is a compressed file, it should be decompressed first. Rename the firmware file to flash.wfm.



2. Insert the TF card into the 3D printer, and click "Firmware Update".
3. The 3D printer will check the version of the firmware file, and then update the motherboard firmware.



3.4.9.WIFI Firmware Update

1. Download and copy the Wifi firmware file to the root directory of the TF card. The suffix of the firmware file is efm. Rename the firmware file to wifi.efm.



2. Insert the TF card into the 3D printer, and click "WIFI firmware Update" .
3. The 3D printer will check the version of the firmware file, and then update the Wifi firmware.



3.4.10.Restore Defaults

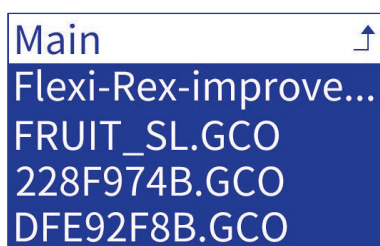
Click "Restore Defaults" to restore all parameters to the factory default.



3.5.Print from TF

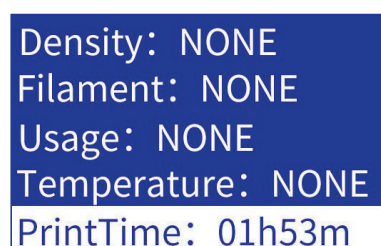
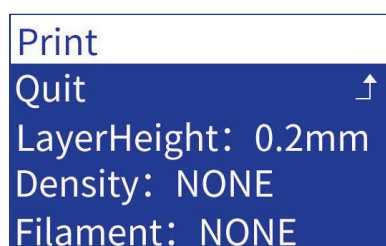


Show the print data files in the TF card. The suffix of the print data file is gco or gcode.

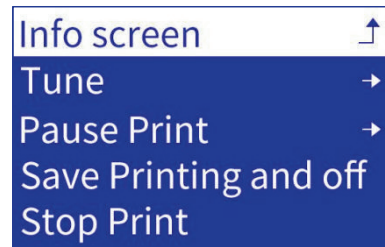
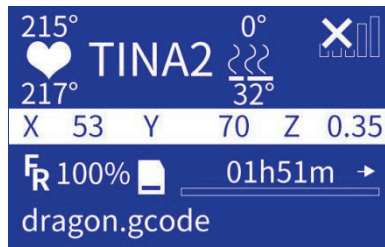


Select a file and press the knob. The next screen will show the printing information of the gcode file. Select "Print" will start printing. To prevent damage to the 3D printer, the system will check the machine model parameter in the gcode file. If the machine model parameter is not match or missing, the gcode file will not allowed to print. Please use the Wiibuilder or the customized version of Cura, select the correct model for slicing.

NOTE: THE LENGTH OF THE FILE NAME CANNOT EXCEED 20 CHARACTERS, OTHERWISE THE SYSTEM CANNOT RECOGNIZE IT OR DISPLAY GARBLED CHARACTERS.

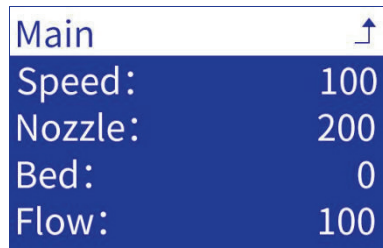


During the printing process, press the knob to open the printing setting menu.

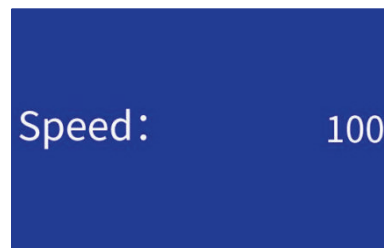
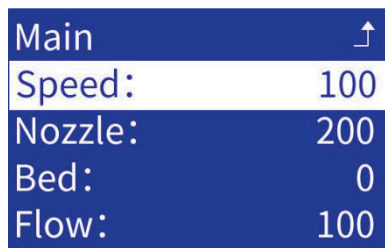


3. 5. 1. Tune

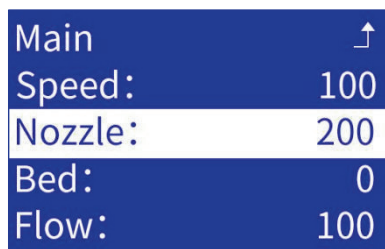
Select "Tune" to open the tune menu. You can adjust the print speed, nozzle temperature, heated bed temperature, extruder speed or Z offset during the printing process.



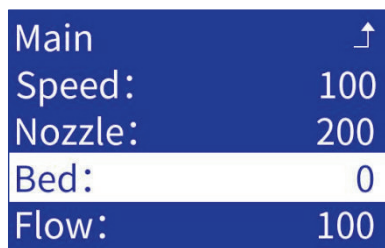
1. Select "Speed", turn the knob to reach the desired speed, and press the knob to confirm.



2. Select "Nozzle", turn the knob to reach the desired temperature of the nozzle, and press the knob to confirm.



3. Select "Bed", turn the knob to reach the desired temperature of the heated bed, and press the knob to confirm.



4. Select "Probe Z Offset", turn the knob to fine tune the gap between the nozzle and the heated bed, and press the knob to confirm.

THIS FUNCTION CAN ADJUST THE HEIGHT OF THE Z AXIS IN REAL TIME TO CHANGE THE GAP BETWEEN THE NOZZLE AND THE PLATFORM DURING THE PRINTING PROCESS. AT THE BEGINNING OF PRINTING, IF IT IS OBSERVED THAT THE GAP BETWEEN THE NOZZLE AND THE PLATFORM IS TOO SMALL AND THE NOZZLE DOES NOT PRODUCE SILK, THE Z OFFSET CAN BE INCREASED BY 0.2MM. IF IT IS OBSERVED THAT THE GAP BETWEEN THE NOZZLE AND THE PLATFORM IS TOO LARGE AND THE FILAMENT DOES NOT ADHERE WELL TO THE PLATFORM, THE Z OFFSET CAN BE GRADUALLY REDUCED.

Speed:	100
Nozzle:	200
Bed:	0
Flow:	100
Probe Z Offset	→

Adjust Z Offset(mm):
-1.360

3.5.2.Pause Print

Select "Pause Print", the 3D Printer will pause printing, and the nozzle will go to the pause position. In pause mode, you can replace the filament or resume the printing.

Info screen	↕
Tune	→
Pause Print	→
Save Printing and off	
Stop Print	

Info screen	↕
Tune	→
Resume Print	
Load Filament	
Unload Filament	

3.5.3.Save Printing and Off

Select "Save Printing and off", the 3D printer will save the current printing progress and go to the pause position. When the 3D printer stops moving, you can power off the 3D printer. The 3D printer will prompt whether to resume the printing when it is powered on next time.

Info screen	↕
Tune	→
Pause Print	→
Save Printing and off	
Stop Print	

Save Printing and Off
Wait for printing stop, then turn off the power

Power Loss Recovery
Resume Print
Stop Print

SPECIAL REMINDER: WHEN “PAUSE PRINT” AND “SAVE PRINTING AND OFF”, THE 3D PRINTER PERFORMS A HOME OPERATION. DUE TO THE MECHANICAL NATURE OF ENDSTOP, THERE WILL BE SLIGHT DEVIATIONS FOR EACH HOMING OPERATION. THEREFORE, AFTER RESUMING PRINTING, THERE WILL BE A CERTAIN SEAM OR DEVIATION IN

THE POSITION WHERE THE PRINTING IS CONTINUED. THEREFORE, IT IS RECOMMENDED TO PRINT THE MODEL AT ONE TIME AS MUCH AS POSSIBLE.

3.5.4. Stop Print

Select "Stop Print", the 3D printer will cancel the current printing job and return to the Info screen.

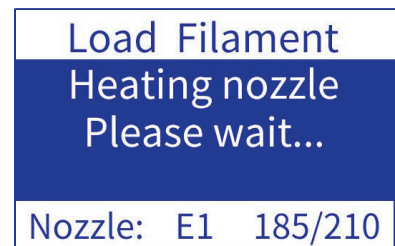
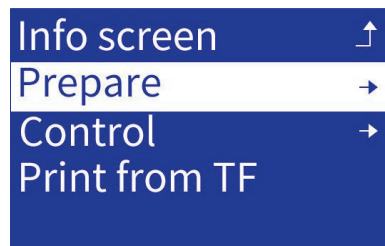


SPECIAL REMINDER:

AFTER PRINTING HAS STOPPED, REMOVE THE MODEL FROM THE PLATFORM.

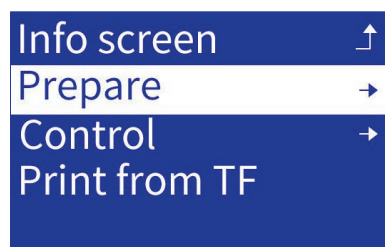
4.COMMON MENU OPERATIONS

4.1. Load Filament



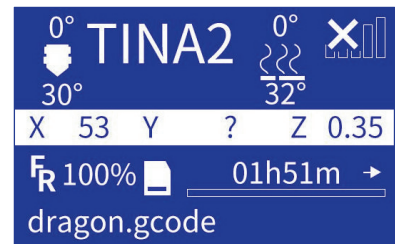
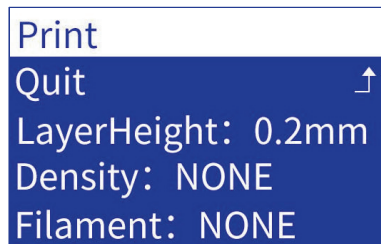
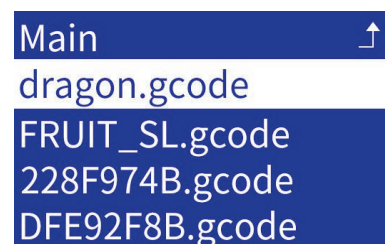
1. Open the main menu, then get into the prepare menu.
2. Turn the knob to the “Load Filament” and click. Once filament starts extruding from the nozzle.

4.2. Unload Filament



1. Open the main menu, the get into the prepare menu.
2. Turn the knob to the “Unload Filament” and click. The 3D printer will heat the nozzle and retract the filament.

4.3.Print from TF Card

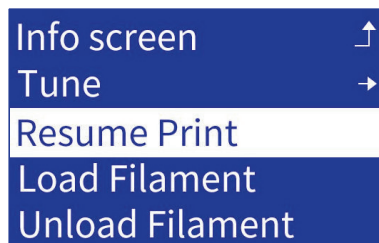
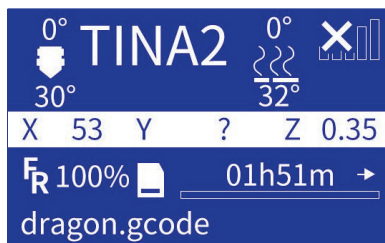


1. Open the main menu, turn the knob to the “Print From TF” and click to open the TF card file list menu.
2. Turn the knob to choose the file to print, then press the knob to start printing.

4.4.Common setting during printing

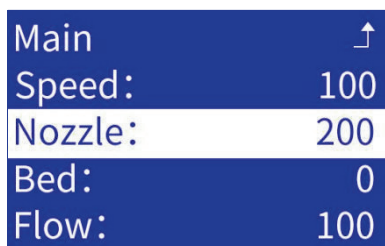
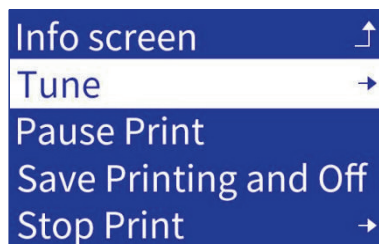
4.4.1.Pause Print

During the printing, press the knob to open the printing setting menu, choice the "Pause Print", the 3D printer will pause the printing and the nozzle will go to the pause position. Then, you can replace the filament, or resume the printing.



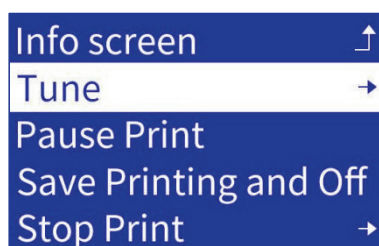
4.4.2.Modify Temperature

During the printing, press the knob to open the printing setting menu, get into the tune menu, choice the "Bed" to open then nozzle temperature adjustment function. Turn the knob to increase or decrease the temperature, press the knob to return.



4.4.3.Modify Z Offset

I During the printing, press the knob to open the printing setting menu, get into the tune menu, choice then "Probe Z Offset" to open then Z offset adjustment function. Turn the knob to fine tune the gap between the nozzle and the platform.



Speed:	100
Nozzle:	200
Bed:	0
Flow:	100
Probe Z Offset	→

Adjust Z Offset(mm):
-1.360

THIS FUNCTION CAN ADJUST THE HEIGHT OF THE Z AXIS IN REAL TIME TO CHANGE THE GAP BETWEEN THE NOZZLE AND THE PLATFORM DURING THE PRINTING PROCESS. AT THE BEGINNING OF PRINTING, IF IT IS OBSERVED THAT THE GAP BETWEEN THE NOZZLE AND THE PLATFORM IS TOO SMALL AND THE NOZZLE DOES NOT PRODUCE SILK, THE Z OFFSET CAN BE INCREASED BY 0.2MM. IF IT IS OBSERVED THAT THE GAP BETWEEN THE NOZZLE AND THE PLATFORM IS TOO LARGE AND THE FILAMENT DOES NOT ADHERE WELL TO THE PLATFORM, THE Z OFFSET CAN BE GRADUALLY REDUCED.

4.5.Power On Resume Print

During printing, the 3D printer will save the current printing progress every 10s. If an unexpected power lost occurs, the 3D printer will prompt whether to resume the printing when it is powered on next time.

SPECIAL REMINDER: WHEN PRINTING, THE 3D PRINTER WILL SAVE THE PRINTING PROGRESS EVERY 10S AND WRITE IT INTO THE ".BIN" FILE OF THE TF CARD. EACH TIME THE PROGRESS IS SAVED, THE PREVIOUS PROGRESS WILL BE DELETED. WHEN THE DEVICE IS POWERED OFF SUDDENLY AND RESTARTED, THE MACHINE WILL CHECK ONLINE WHETHER THERE IS A ".BIN" FILE IN THE MEMORY CARD. IF THERE IS, IT WILL PROMPT "CONTINUE PRINTING, STOP PRINTING"; CONTINUE PRINTING, THE DEVICE WILL READ THE SAVED PROGRESS AND STOP PRINTING, THE DEVICE WILL CLEAR THE ".BIN" FILE. HOWEVER, BECAUSE THE PROGRESS OF THE POWER OFF REPLAY IS SAVED ONCE EVERY 10S, AND THERE IS A TIME INTERVAL OF 10S, THERE IS A POSSIBILITY OF FAILURE IN THE POWER-OFF REPLAY.

5. WIFI NETWORK

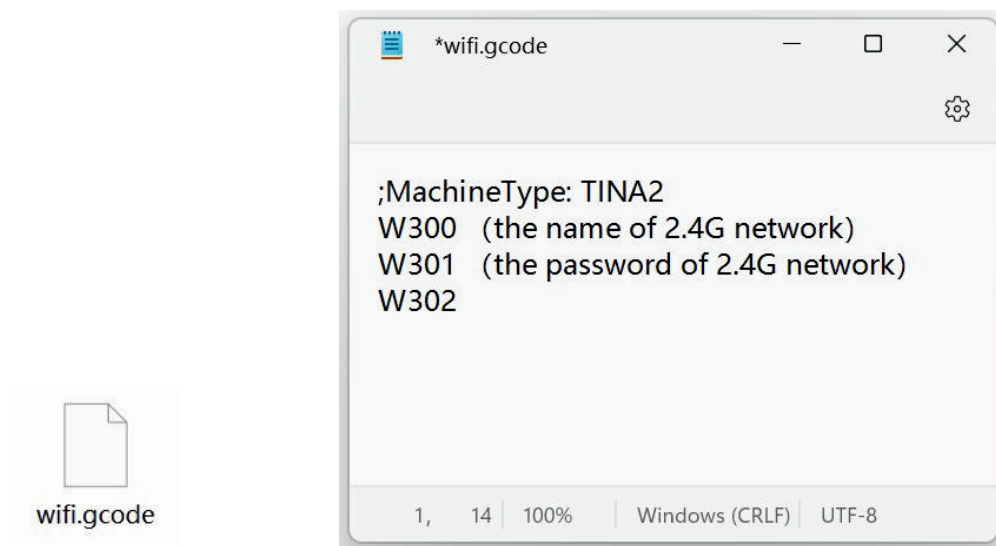
There are two methods for TINA2S to connect the network, which will be described in detail below.

If you encounter problems , please consult the after-sales customer service.

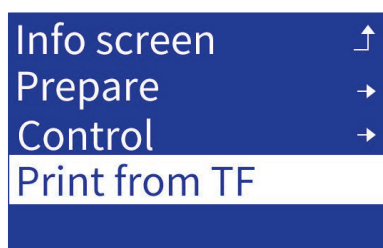
5.1.File connect network

1. Use TF card reader to open TF card in a computer. Open the "WIFI.gcode" file, modify the string after the W300 command to be the WIFI network name, and modify the string after the W301 command to be the password of the WIFI network.

NOTE THAT THERE MUST BE A SPACE AFTER W300 AND W301, SAVE AND EXIT.

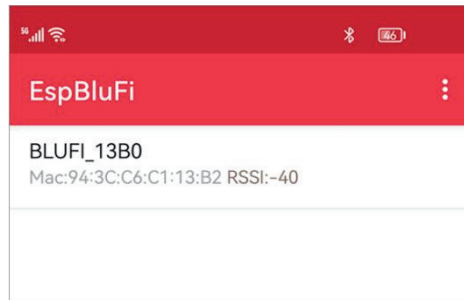


2. Insert the TF card into the TINA2 and choose to print the "WIFI.gcode" file. After few seconds, the info screen show the IP address, which means the network configuration is successful.



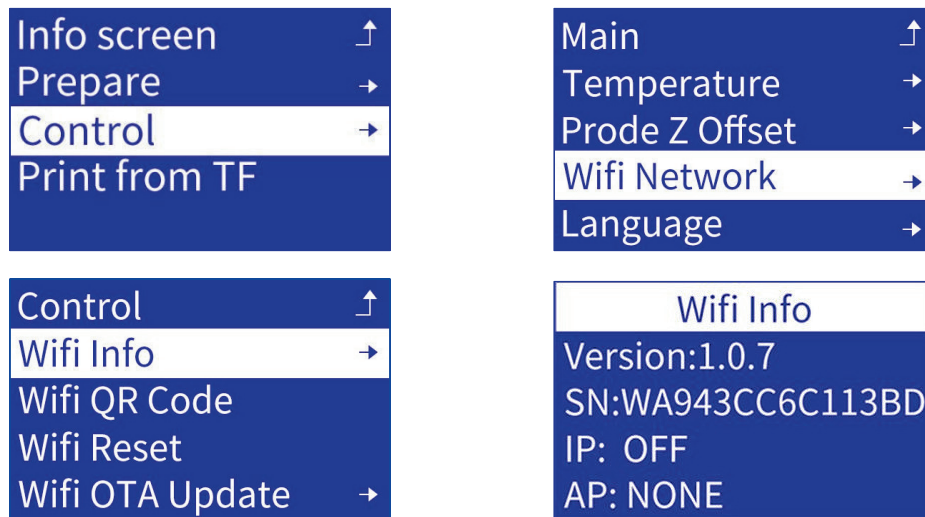
5.2.EspBluFi connect network

1. Download and install EspBluFi.

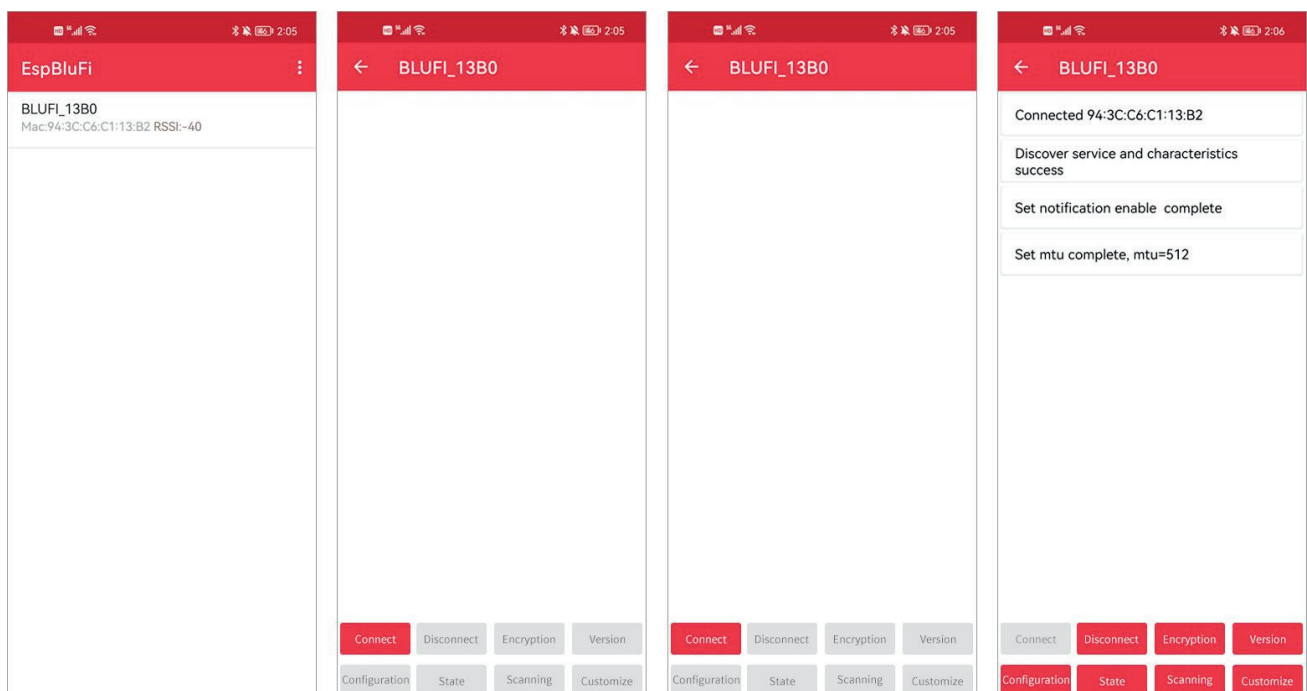


NOTE: TURN ON BLUETOOTH.

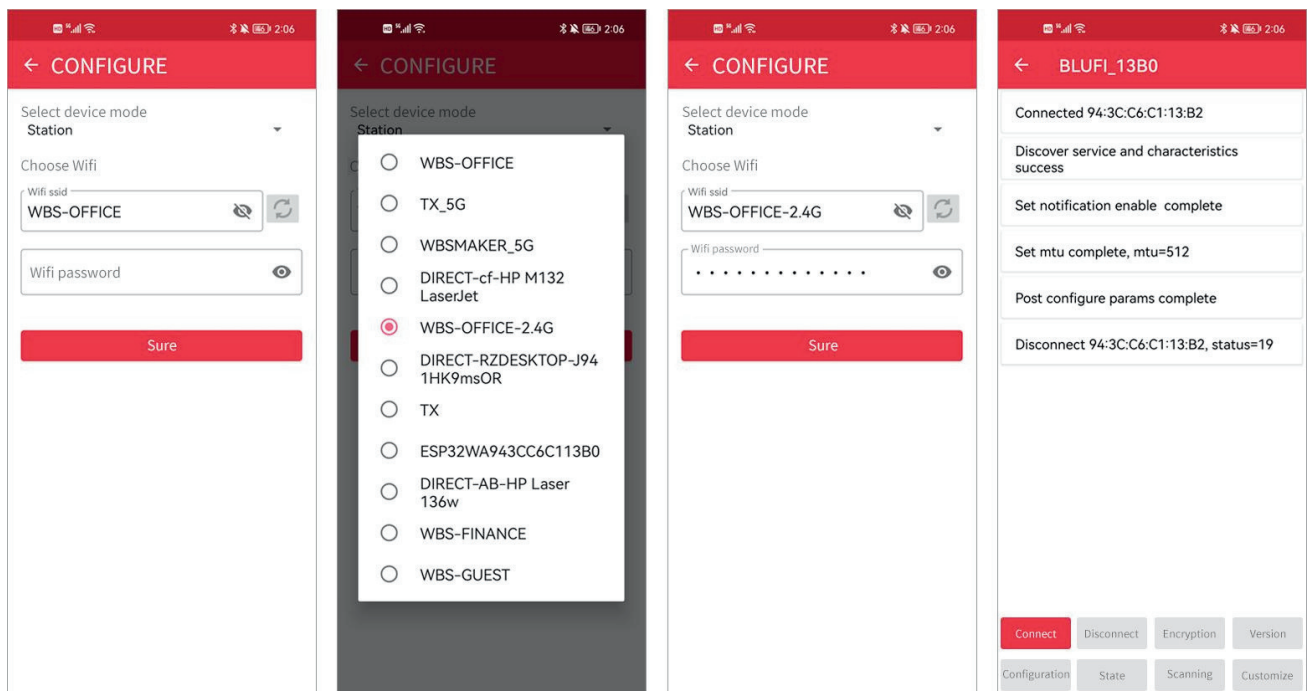
2. Open "WifiInfor" , and get the last four digits of the SN.



3. In EspBluFi, select the printer. Click "Connect", " Configuration".



4. Click “  ”, select the 2.4G network , and enter the password.



5. After restarting, if the machine displays IP address, the network configuration is successful.

Wifi Info
Version:1.0.7
SN:WA943CC6C11740
IP:192.168.10.250
AP:WBS-OFFICE-2.4G

200°	TINA2	40°	
150°		20°	
X 100	Y ?	Z 100	
F _R 100%		00h00m	
192.168.10.11			

6.WIIBUILDER SLICING SOFTWARE

The 3D printer includes the Wiibuilder slicing software on the included TF card. Use the included card reader to display the contents of the TF card on your PC to install the program.

Configuration requirements to run Wiibuilder:

CPU:Pentium1GHz

Memory:minimum1G

Harddisk:morethan1Gdiskspace

Displayresolution:minimum640*480pixels

Graphicscard:support3Dacceleration,supportOpenGL2.0andabove

Color:minimum256colors

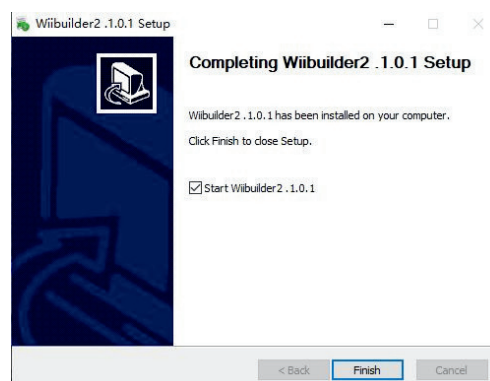
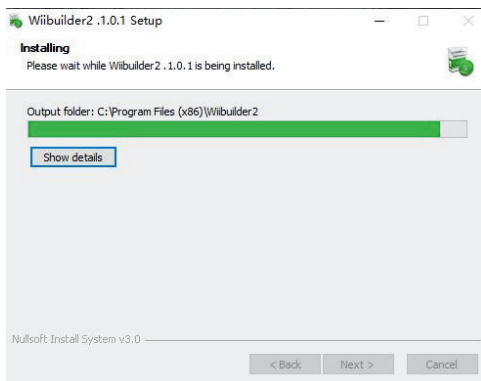
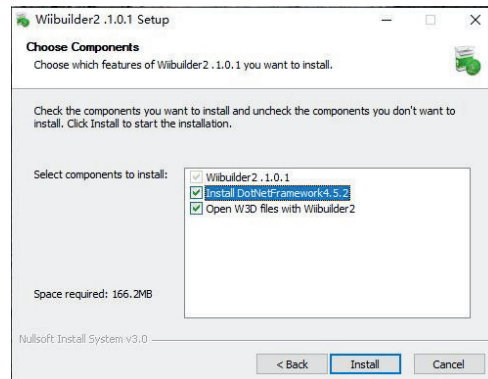
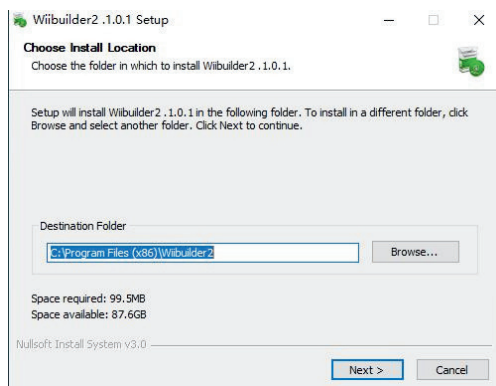
Operatingssystem:Windows7andabove/MACOS8.0andabove

Otherruntimelibraries:.NetFramework4.5.2andabove

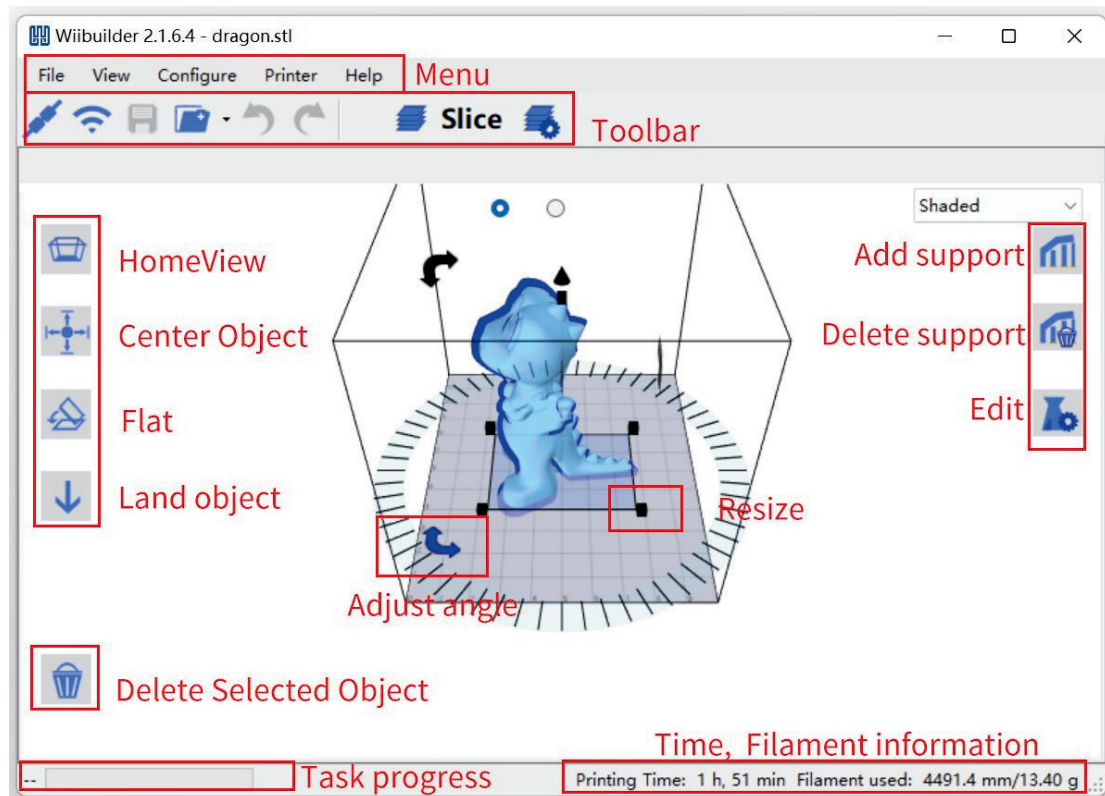
6.1. Installation

Perform the following steps to install the Wiibuilder slicing software.

Locate and run the Wiibuilder.exe software on the SD card to install the Wiibuilder software program. Click the Install-Next- Finishbutton to continue.

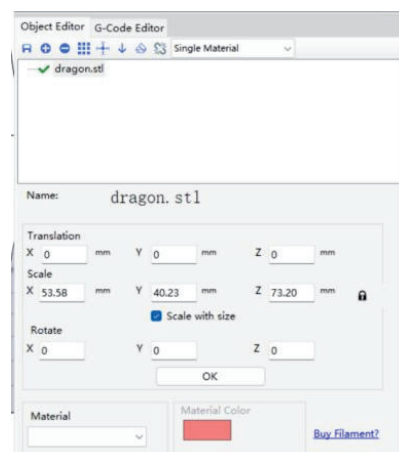


6.2. Interface Introduction

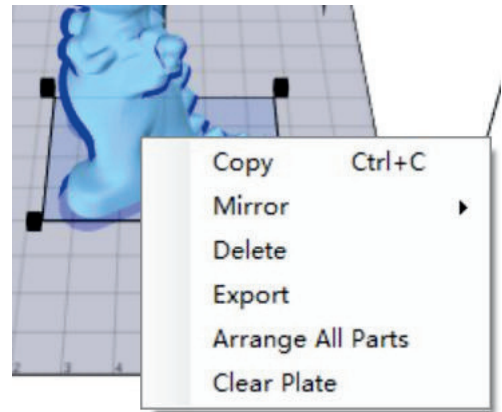


- ☐ Menu bar: Open the Wiibuilder menu.
- ☐ Toolbar: USB connection, WIFI connection, save gcode file, load model, undo, restore, execute slice, slice setting.
- ☐ Home view: Restore the default viewing angle.
- ☐ Center Object: Automatically adjust the XY coordinates of the model and place the model in the middle of the platform.
- ☐ Flat: Automatically adjust the inclination of the model, and flatten the inclined model on the platform.
- ☐ Land object: Automatically adjust the Z coordinate of the model to align the bottom of the model with the platform.
- ☐ Delete Selected Object: Delete the currently selected model.
- ☐ Add Support: Add manual support to the model.
- ☐ Delete Support: Delete the added manual support.
- ☐ Edit: Open model and Gcode editor.

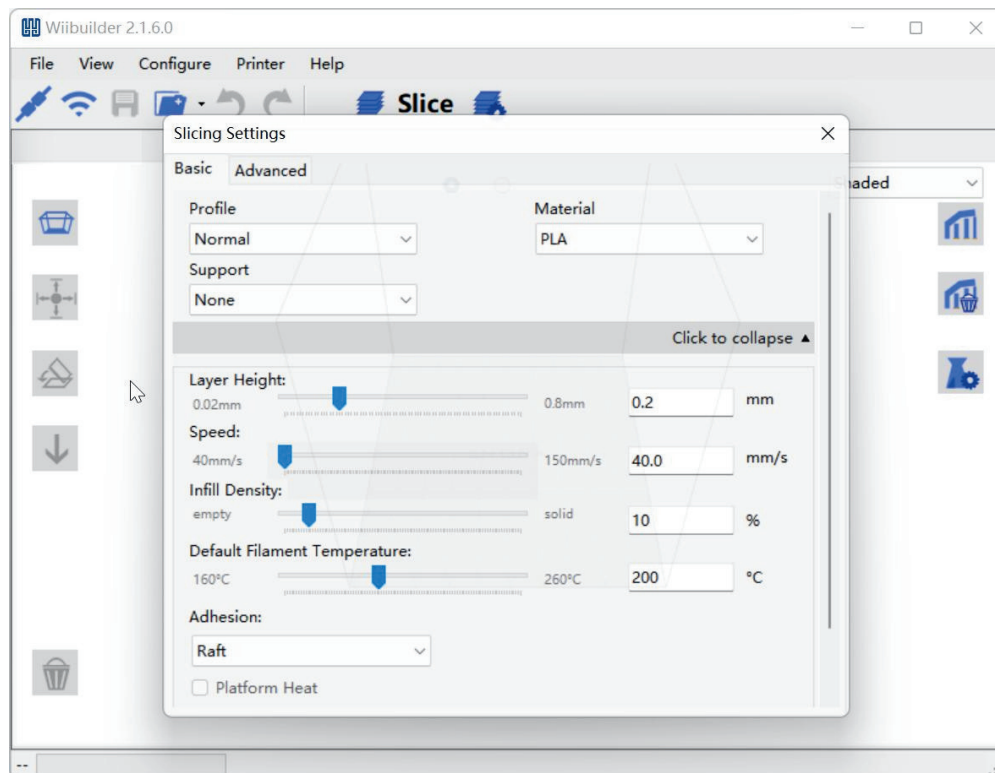
Right click on the model to open the context menu:



- ☐ Copy: Open the model copy.
- ☐ Mirror: Mirror the model according to the X, Y, Z axis directions.
- ☐ Delete: Delete the current model.
- ☐ Export: Export the current model to stl file.
- ☐ Arrange All Parts: automatically adjust the position and spacing of multiple models on the platform.
- ☐ Clear Plate: Delete all models on the platform.

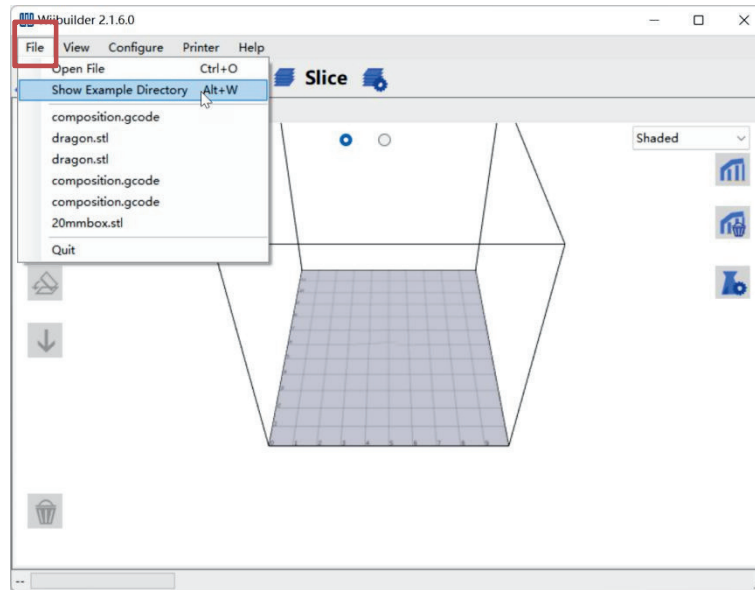


Slicing Settings:

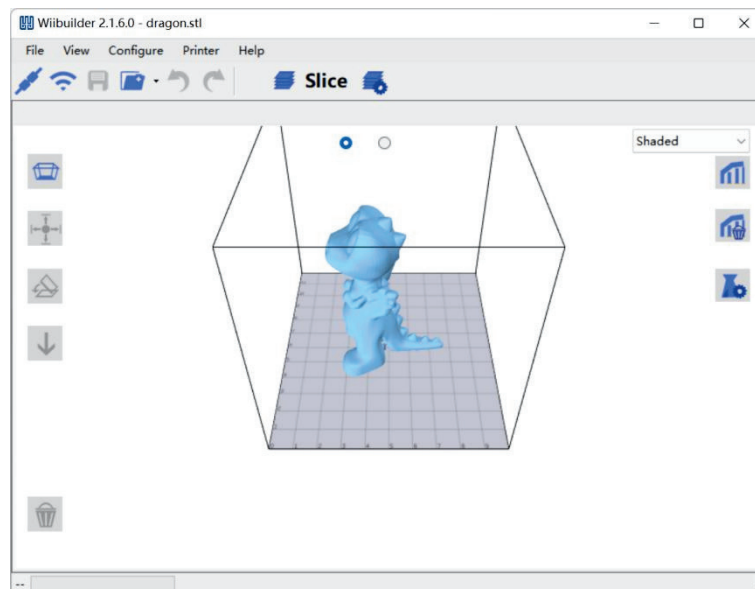


6.3. Add Model

1. Open Wiibuilder, click “File” to load the model, or just drag the model into it.

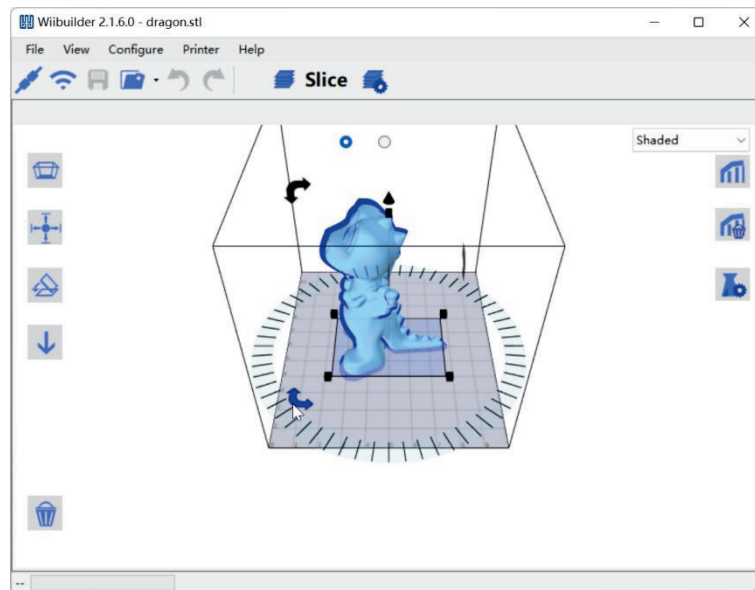


2. Five models have been stored in the “Show Example Directory”, you can use them for test printing.

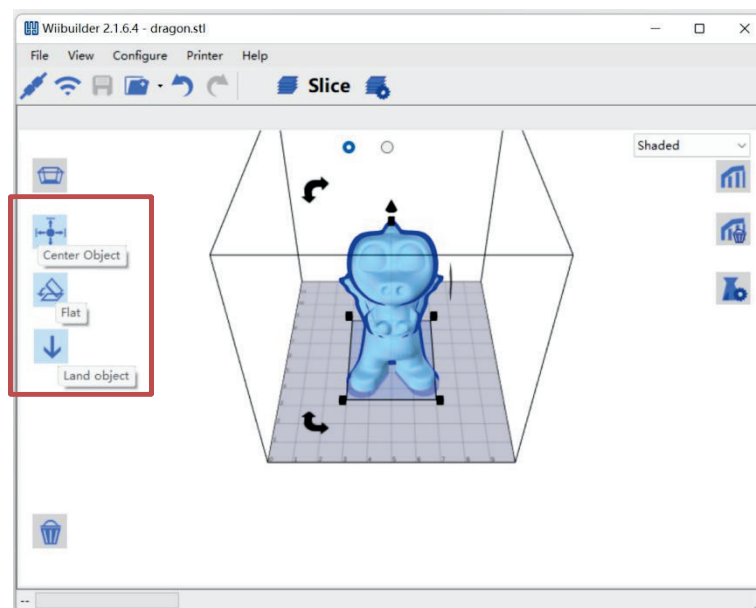


6.4.Adjust The Model

1. Click the model to adjust the size, angle, and position.

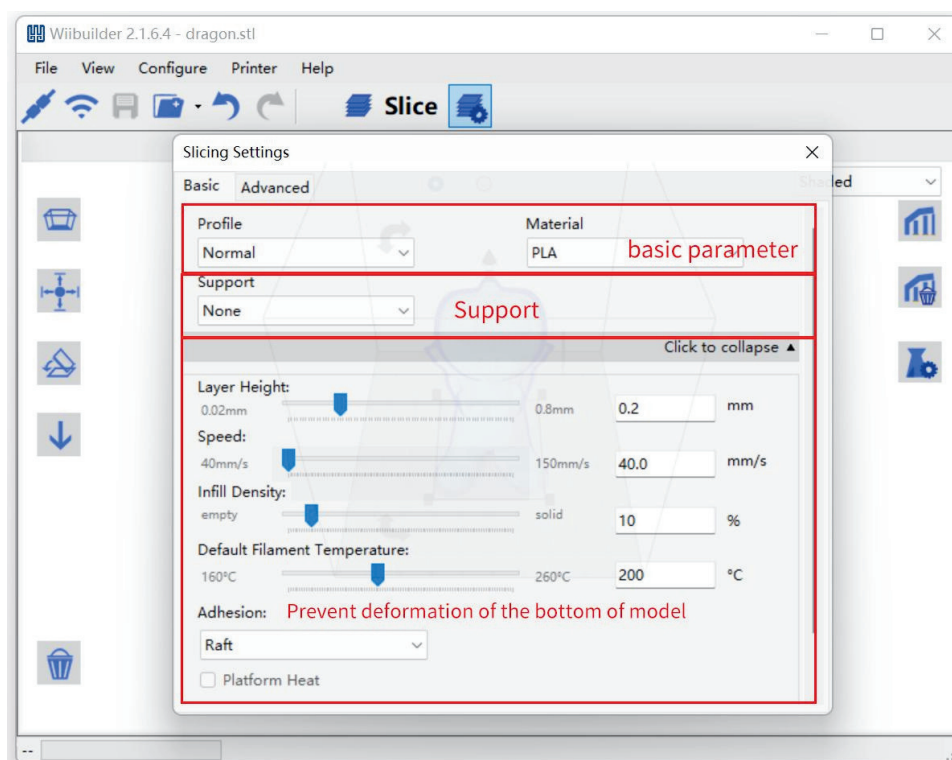


2. The model needs to be centered and correctly placed on the platform. Click "Center Object", "Flat", and "Land object".

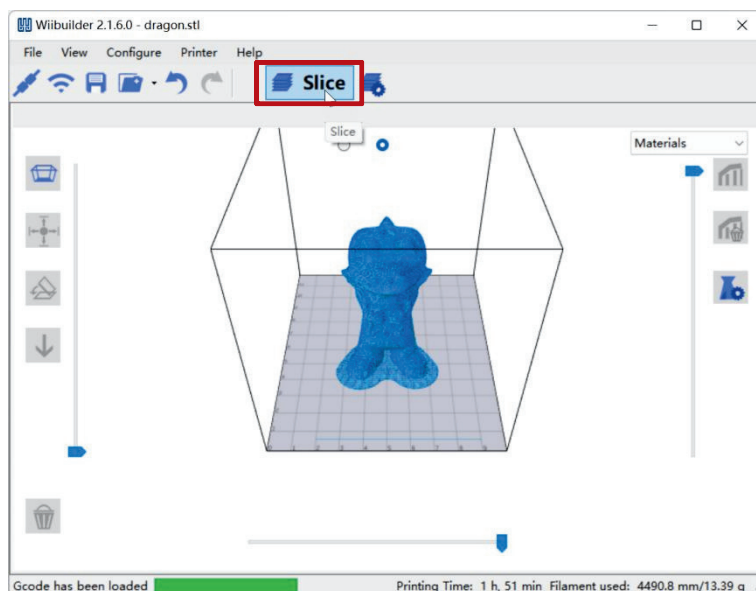


6.5. Basic Parameter Settings

Novice users can directly use the default parameters without adjustment.



After setting the parameters, click "Slice" to convert the file.

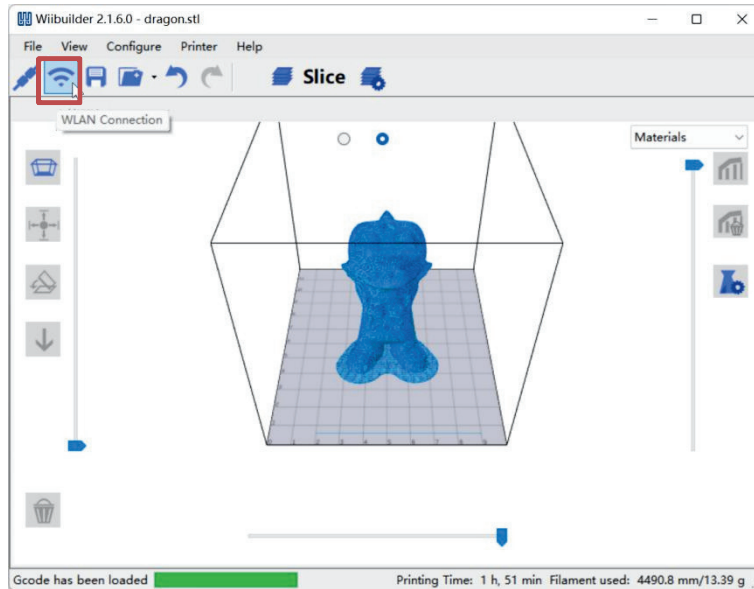


6.6. Send Files by The Network

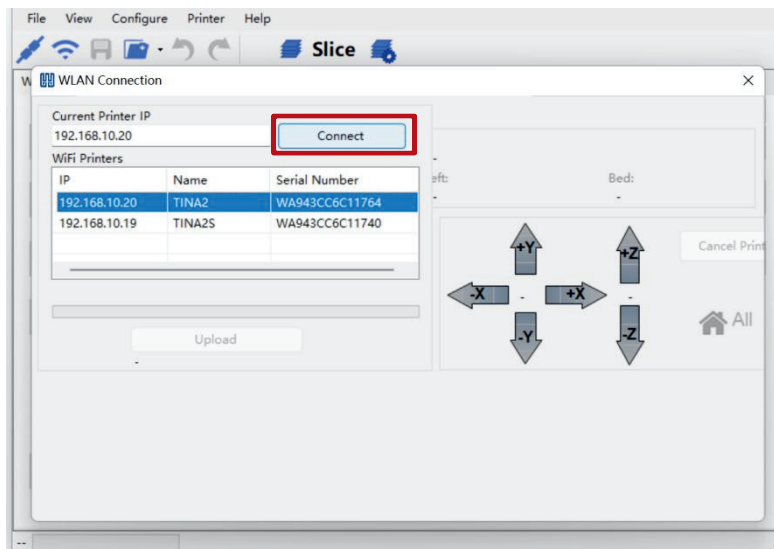
NOTE: THE 3D PRINTER HAS BEEN CONNECTED TO THE NETWORK, AND THE IP ADDRESS IS DISPLAYED. FOR OPERATIONS, PLEASE REFER TO: "5. WIFI NETWORK".



1. The computer should connect to the same local network with the 3D printer.

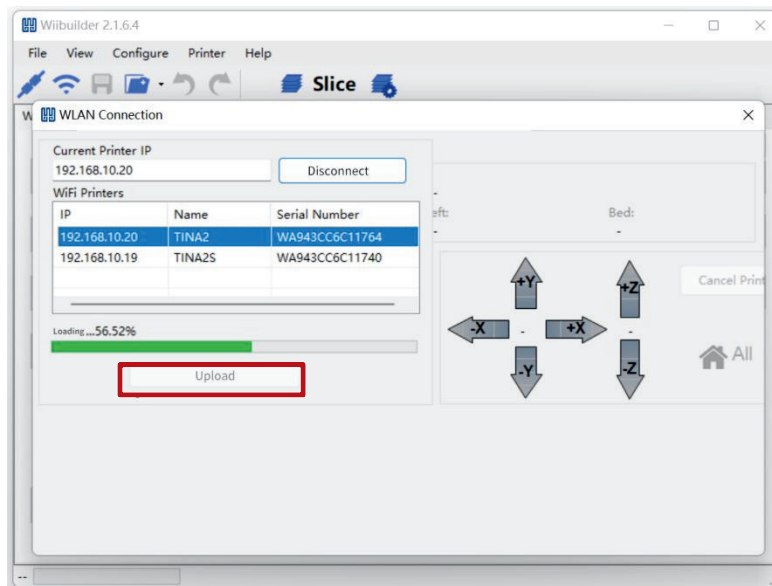


2. Click "WLAN Connection", the software will automatically search for the 3D printers in the local network and show them in the below list. If no 3D printer be found, you can also try to manually enter the IP address of the 3D printer to connect.



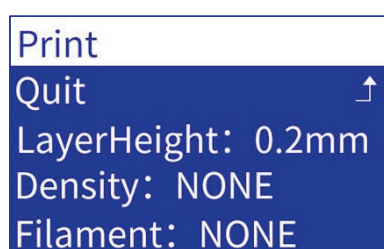
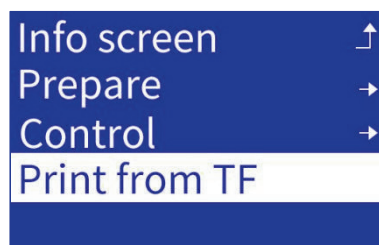
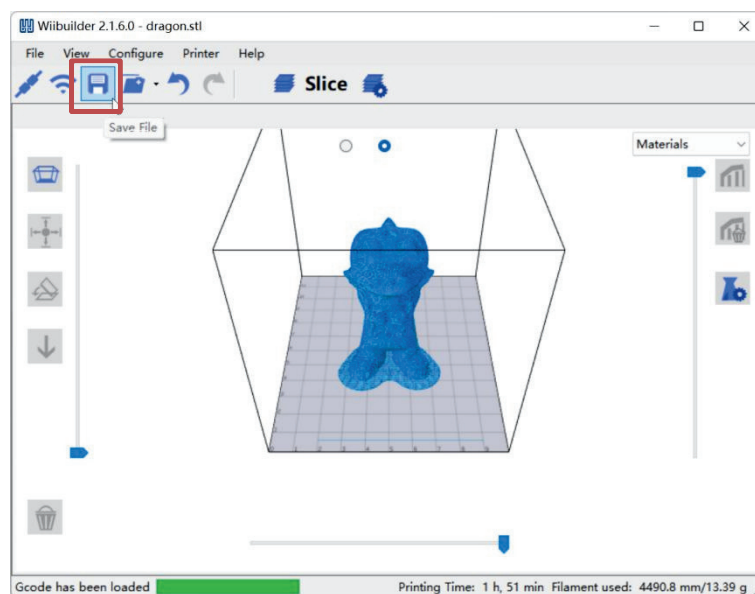
NOTE: IF YOU STILL CANNOT CONNECT TO THE 3D PRINTER, PLEASE CHECK WHETHER THE FIREWALL OF THE COMPUTER PROHIBITS THE SOFTWARE FROM NETWORKING, AND WHETHER THE COMPUTER AND THE 3D PRINTER ARE IN THE SAME LOCAL AREA NETWORK.

3. Send the sliced model to the 3D printer, and the 3D printer starts printing after receiving it.



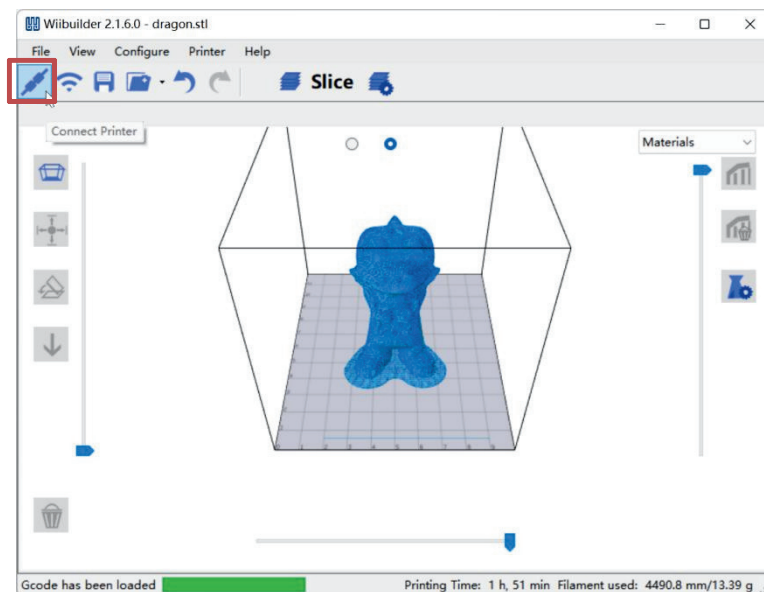
6.7.Send Files by TF Card

Save the sliced model to the TF card, insert the TF card into the 3D printer and print.

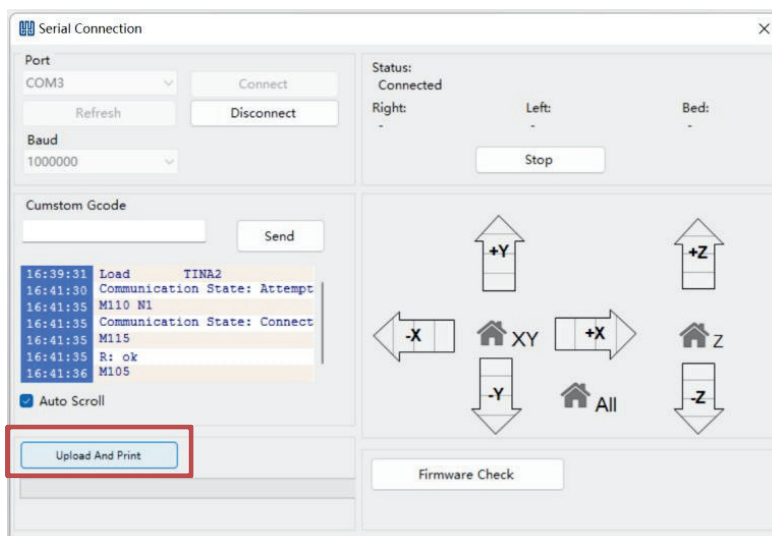
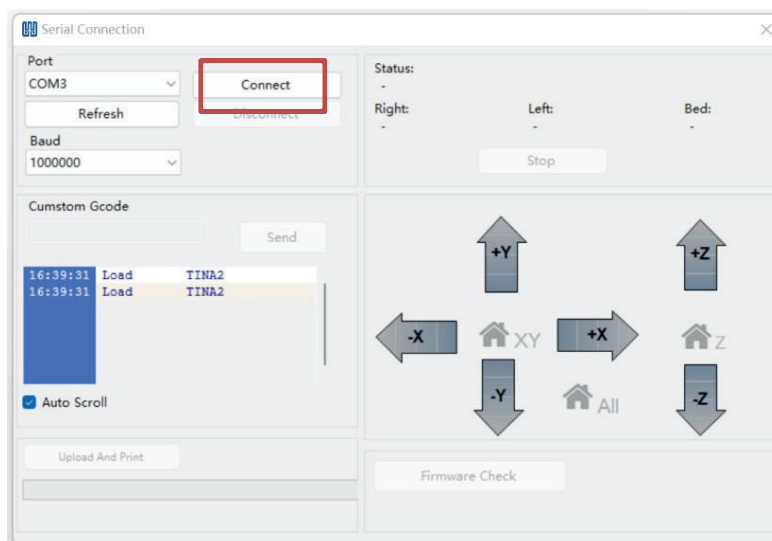


6.8. Send Files by USB

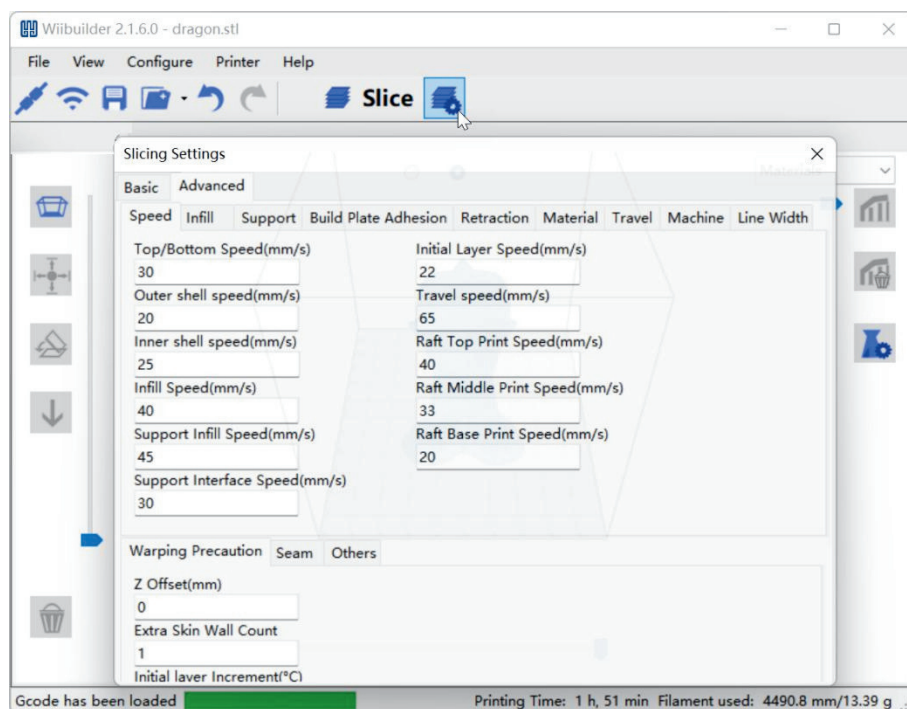
1. Connect the 3D printer and computer with a USB cable. The CH340 driver should be installed first. Click "Connect Printer".



2. Click "Connect". Click "Upload And Print", the model will start printing.



6.9. Advanced Parameter Settings



6.9.1. Speed Tab

Speed	Infill	Support	Build Plate Adhesion	Retraction	Material	Travel	Machine	Line Width
Top/Bottom Speed(mm/s)	46.5					Initial Layer Speed(mm/s)	26.5	
Outer shell speed(mm/s)	25					Travel speed(mm/s)	104.8	
Inner shell speed(mm/s)	30							
Infill Speed(mm/s)	75							
Support Infill Speed(mm/s)	58.2							
Support Interface Speed(mm/s)	39.5							

The **Speed Tab** features the following options:

- ☐ **Top/Bottom Speed (mm/s):** Sets the printing speed of the top and bottom surfaces of the model.
- ☐ **Outer shell speed (mm/s):** Sets the printing speed of the external shell surfaces.
- ☐ **Inner shell speed (mm/s):** Sets the printing speed of the internal shell surfaces.
- ☐ **Infill Speed (mm/s):** Sets the printing speed of the infill inside the model.
- ☐ **Support Infill Speed (mm/s):** Sets the printing speed of infill inside the model supports.
- ☐ **Support Interface Speed (mm/s):** Sets the printing speed of the top and bottom surfaces of the model supports.
- ☐ **Initial Layer Speed (mm/s):** Sets the printing speed of the first layer of the model.

- **Travel speed (mm/s):** Sets the movement speed of the nozzle when not printing.

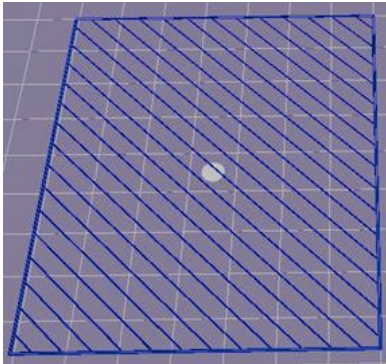
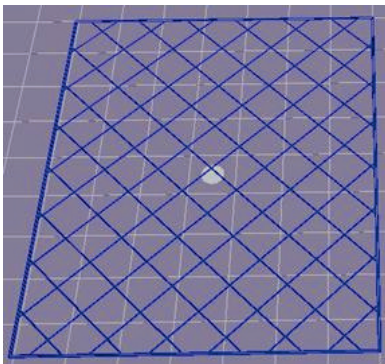
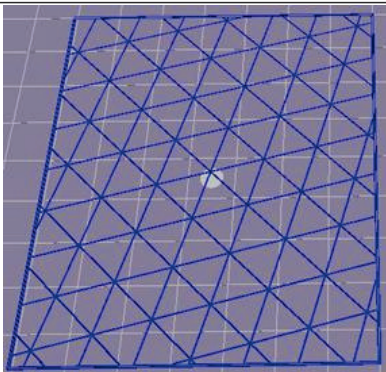
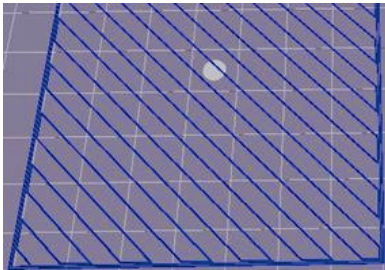
6.9.2. Infill Tab

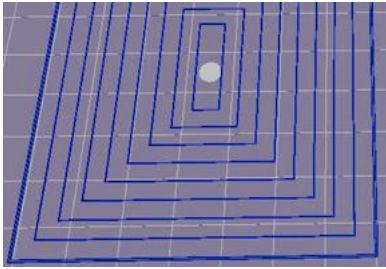
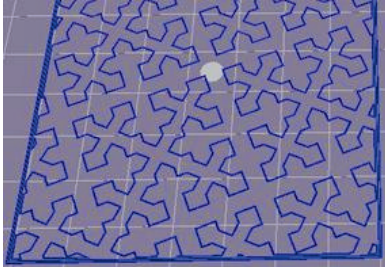
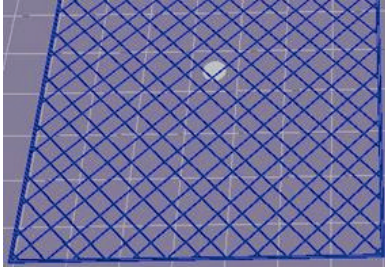


Infill Pattern: Use the drop-down menu to select one of seven different infill patterns, including **Lines**, **Grid**, **Triangles**, **Zig Zag**, **Concentric**, **Cross**, and **Octet**. The individual patterns are illustrated in the table below.

Infill Before Wall: Check this box to print the model after filling and printing the outline.

Outer Before Inner Walls: Check this box to print the exterior walls before printing the interior walls.

Infill Patterns	
	
Lines	Grid
	
Triangle	Zig Zag

	
Concentric	Cross
	
Octet	

6.9.3.Support Tab

Speed	Infill	Support	Build Plate Adhesion	Retraction	Material	Travel	Machine	Line Width
Support Pattern:		Zig Zag	Enable Support Interface		☒			
Overhang angle for support(°):		60	Support Top Thickness(mm)		0.8			
Support infill density(%):		10	Support Bottom Thickness(mm)		0.8			
Support Top Gap(mm):		0.18	Support Interface Density(%)		70			
Support Bottom Gap(mm):		0.1	Support Interface Infill Pattern		Lines			
Distance X/Y(mm):		0.7	Connect Support		☐			

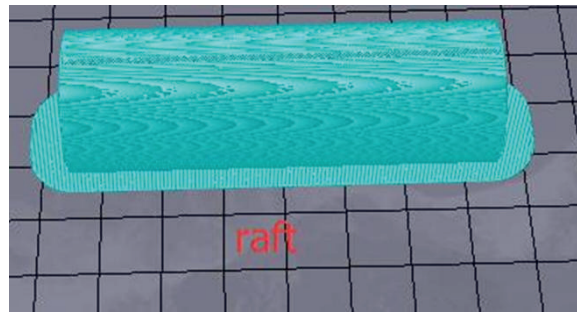
- **Support Pattern:** Use the drop-down menu to select one of five support patterns, including **Lines**, **Grid**, **Triangles**, **Zig Zag**, and **Concentric**. The pattern designs are the same as those of the infill patterns of the same name.
 - o **Lines** support is easy to remove and is used on models that require more support.
 - o **Grid** support is used on small models, which need fewer supports.
 - o **Zig Zag** support is used for models that are particularly difficult to remove. It is stronger than Lines support and is better than Grid support.
- **Overhang angle:** The overhang angle is the angle between the support and the surface of the model. Larger settings make the supports easier to remove, while smaller settings provide better support. The default angle is 60 degrees.

- ☐ **Support infill density (%)**: Determines the infill density for supports. The higher the density, the stronger the supports.
- ☐ **Support Top Gap (mm)**: The distance between the top of the support and the model surface. The smaller the distance, the more effective the support, but is more difficult to remove from the model surface, resulting in residual material on the model surface. The larger the distance, the less effective the support, but is easier to remove from the model surface, resulting in a smoother surface.
- ☐ **Support Bottom Gap (mm)**: The distance between the bottom of the support and the model surface. The effects of this parameter are the same as the effects of the **Support Top Gap (mm)** parameter. **Distance X/Y (mm)**: The distance between the support and the model surface in the horizontal plane. The effects of this parameter are the same as the effects of the **Support Top Gap (mm)** parameter.
- ☐ **Enable Support**: Check this box to use supports. **Support Top**: Determines the thickness of the top layer of the supports. **Support Bottom**: Determines the thickness of the bottom layer of the supports. **Support Interface**: Sets the percentage of infill used inside the supports. **Support Interface Infill Pattern**: Use this drop-down menu to choose one of five infill patterns for the supports, including **Lines**, **Grid**, **Triangles**, **Zig Zag**, and **Concentric**. The pattern designs are the same as those of the infill patterns of the same name. **Connect Support**: Check this box to connect separate supports into one part.
- ☐

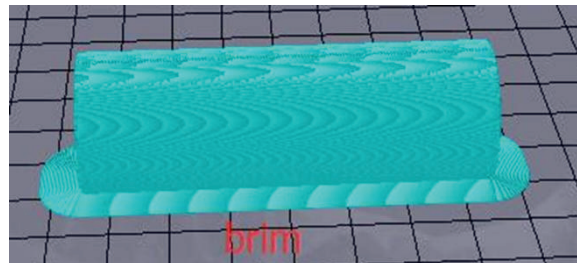
6.9.4. Build Plate Adhesion Tab

Speed	Infill	Support	Build Plate Adhesion	Retraction	Material	Travel	Machine	Line Width	
Raft Air Gap(mm)				0.24	Brim line amount				20
Raft Extra Margin(mm)				5	Skirt Line Count				1
Raft Base thickness(mm)				0.3					
Initial Layer Z Overlap				0.09					

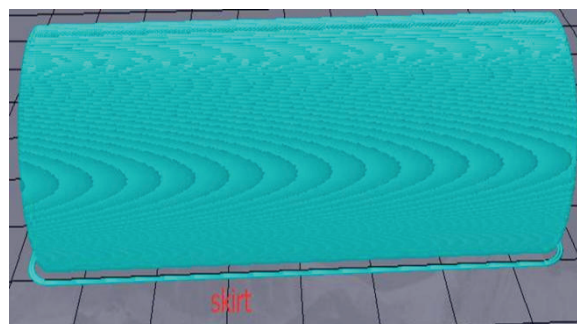
- ☐ **Raft Air Gap (mm)**: The distance between the raft and the model. This determines the difficulty of removing the raft from the model.



- ☐ **Raft Extra Margin (mm):** The distance between the edge of the raft and the model surface.
- ☐ **Raft Base thickness (mm):** Determines the thickness of the raft.
- ☐ **Initial Layer Z Overlap:** Determines the amount of overlap between the first and second layers of the model.
- ☐ **Brim line amount:** Sets the number of ring gaskets that are added to the edge of the model in contact with the build platform.



- ☐ **Skirt Line Count:** Sets the number of anti-overflow lines at the end of the model in contact with the build platform.



6.9.5.Retraction Tab

Speed	Infill	Support	Build Plate Adhesion	Retraction	Material	Travel	Machine	Line Width	
Horizontal Travel Retraction				☒	Z Hop When Retracted				☒
Retract at Layer Change				☐	Z Hop Height(mm):				0
Retraction speed(mm/s):				28					
Retraction distance(mm):				1.2					
Retraction Minimum Travel(mm):				0.8					

- ☐ **Horizontal Travel Retraction:** Check this box to enable filament retraction when the nozzle is not printing and is moving in a horizontal direction.
- ☐ **Retract at Layer Change:** Check this box to retract the filament when switching from layer to layer.
- ☐ **Retraction speed (mm/s):** Sets the speed at which filament is retracted.
- ☐ **Retraction distance (mm):** The distance the filament is retracted within the nozzle.
- ☐ **Retraction Minimum Travel (mm):** Sets the minimum nozzle movement distance before printing and before retracting the filament.
- ☐ **Z Hoe When Retracted:** Check this box to enable lift the nozzle when filament is returned after retraction.
- ☐ **Z Hop Height (mm):** The distance the nozzle is lifted when filament is returned after retraction.

6.9.6.Material Tab

The screenshot shows the 'Material' tab selected in a configuration menu. Below the tab, there are two input fields: 'Filament flow(%)' with a value of 95, and 'Filament Diameter(mm)' with a value of 1.75. The interface has a light gray background with white text and borders.

- ☐ **Filament flow (%):** Sets the flow rate of filament in the melting state. This is set according to the type of filament being used. In general, the flow rate for PLA or PLA Pro is 90 and the flow rate of ABS is 100.
- ☐ **Filament Diameter (mm):** Sets the diameter of the filament being used. This printer only supports 1.75mm diameter filament.

6.9.7.Travel Tab

The screenshot shows the 'Travel' tab selected in a configuration menu. Below the tab, there is a dropdown menu labeled 'Combing Mode' with 'Off' selected. The interface has a light gray background with white text and borders.

- ☐ **Combing Mode:** This option determines how the nozzle will move when not printing. The **Off** option has the nozzle move the shortest distance between the previous extrusion location and the new start location. The **All** option causes the nozzle to move along anything it has already extruded. The **No Skin** option will avoid the outer layers to move the nozzle to the new start location, which can greatly improve print quality.

6.9.8.Machine Tab

Basic	Advanced
Speed	Infill
Support	Build Plate Adhesion
Retraction	Material
Travel	Machine
Line Width	

Right Nozzle Diameter(mm)

0.4

- ☐ **Right Nozzle Diameter (mm):** Sets the diameter of the nozzle on the right extruder. This printer only has a single extruder, which is designated the right extruder. The nozzle diameter of this printer is 0.4mm.

6.9.9.Line Width Tab

Speed	Infill	Support	Build Plate Adhesion	Retraction	Material	Travel	Machine	Line Width
Outer Wall Line Width(mm)	0.4	Skirt/Brim Line Width(mm)	0.4					
Inner Wall(s) Line Width(mm)	0.4	Raft Top Line Width(mm)	0.4					
Top/Bottom Line Width(mm)	0.4	Raft Middle Line Width(mm)	0.7					
Infill Line Width(mm)	0.5	Raft Base Line Width(mm)	0.8					
Support Line Width(mm)	0.4	Prime Tower Line Width(mm)	0.4					

- ☐ **Outer Wall Line Width (mm):** This is the width of the outermost wall line. By lowering this value, higher levels of detail can be printed.
- ☐ **Inner Wall(s) Line Width (mm):** This is the width of a single wall line for all walls except the outermost wall.
- ☐ **Top/Bottom Line Width (mm):** This is the width of the top and bottom lines.
- ☐ **Infill Line Width (mm):** This is the width of a single infill line.
- ☐ **Support Line Width (mm):** This is the width of a single support structure line.
- ☐ **Skirt/Brim Line Width (mm):** This is the width of a single skirt or brim line.
- ☐ **Raft Top Line Width (mm):** This is the width of the lines in the top surface of the raft. These lines can be thin so that the top of the raft is smooth.
- ☐ **Raft Middle Line Width (mm):** This is the width of the lines in the middle raft layers. Making the second layer extrude more causes the lines to stick to the build plate.
- ☐ **Raft Base Line Width (mm):** This is the width of the raft base layer. These should be thick lines to assist with build plate adhesion.
- ☐ **Prime Tower Line Width (mm):** This is the extrusion width of the prime tower.

6.9.10. Seam Tab

Note: The Z Seam is where the 3D printer finishes its motion when printing the skin (outside layer) of a model. This can result in a small blob or zit where the 3D printer changes the Z height. If in alignment, there can be a noticeable line up the side of the print, referred to as a Z Seam, because the filament continues to ooze at the start/stop location. The options on this screen are used to mitigate this effect.

ZSeamType: Determines where the Z Seam will appear.

- o **Shortest:** This option selects the most time efficient start/stop location.
- o **User Specified:** This option allows you to specify the X and Y start/stop location, which determines where the Z Seam will appear.
- o **Random:** With this option, the 3D printer will randomly choose the start/stop location, which prevents building a column.
- o **Sharpest Corner:** The start/stop location and the Z Seam will appear in the sharpest corner of the model.

ZSeamX(mm): This option is the X location of the Z Seam. This option can only be set when the Z Seam Type is set to **User Defined**.

ZSeamY(mm): This option is the Y location of the Z Seam. This option can only be set when the Z Seam Type is set to **User Defined**.

Hiding Seam Preference: This option is only available when the Z Seam Type is set to

Sharpest Corner. It determines whether the Z Seam will be on the inside or outside of the corner.

ZSeamRelative: Checking this box will set the Z Seam in respect to the object's center, whereas leaving the box unchecked will set the Z Seam along the absolute position on the build plate. This option is only available when the Z Seam Type is set to **User Defined**.

6.9.11. Others Tab

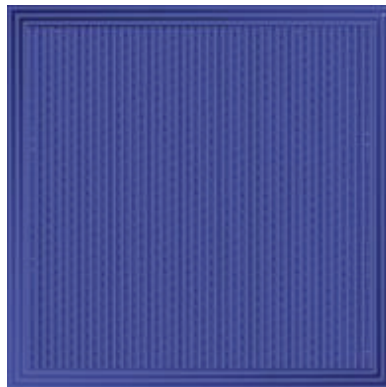
- ☐ **Skin Layers Thickness (mm):** This option determines the thickness of the top and bottom skin layers.

- ☐ **Horizontal Expansion (mm):** Thermoplastics tend to shrink when cooling. This option allows you to fine tune the part size to offset shrinkage for prints that require tighter tolerances.
- ☐ **Skin Alternate Rotation:** Typically, a 3D printer will print solid layers for the top and bottom layers. When doing this, it changes direction 90 degrees from layer to layer. This setting changes that behavior to add an additional 45 degrees of rotation every two layers.

The following images illustrate the normal print direction of the first three layers.



The following image illustrates the print direction of layer three when the **Skin Alternate Rotation** option is enabled.

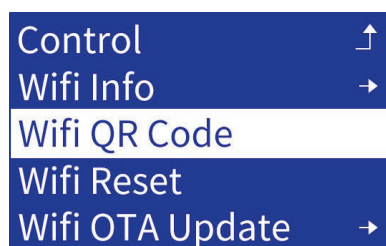
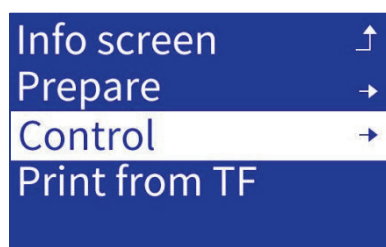


- ☐ **Enable Print Cooling:** When enabled, cooling air will be directed at the printed part. **Enable**
- ☐ **Draft Shield:** When enabled, this printer will print a wall around the model to prevent environmental breezes or drafts from affecting the cooling. This is typically used when **Enable Print Cooling** is disabled for filament that needs a longer cooling time, such as ABS.
- ☐ **Wall Line Count:** This option determines the number of walls to print.

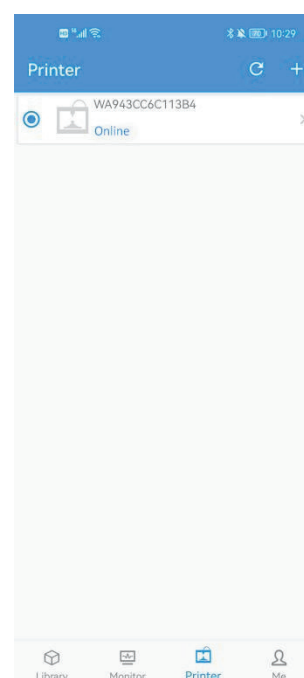
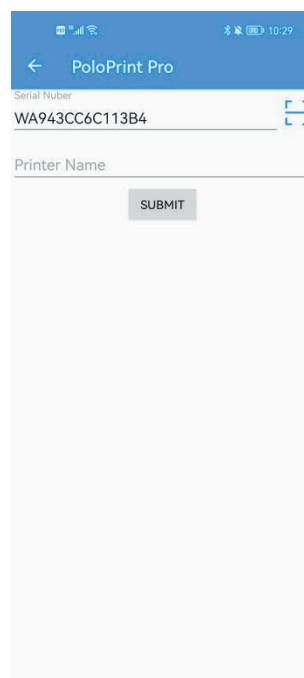
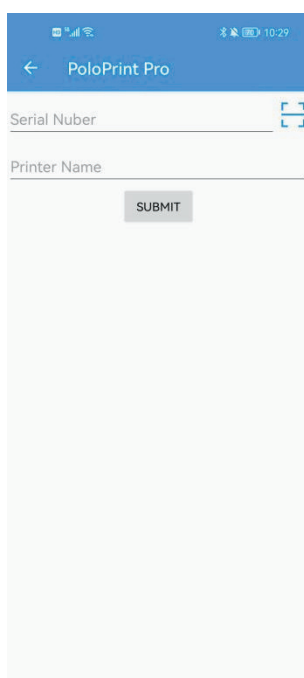
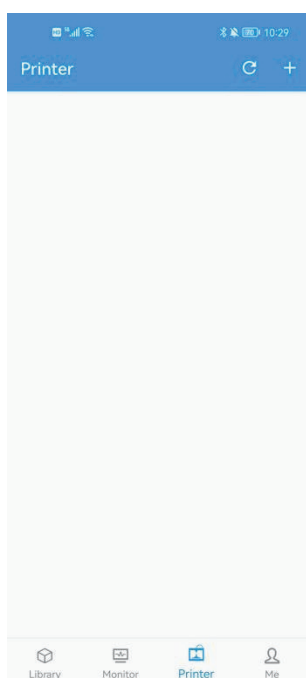
7.PRINT BY APP

1. Download and install the APP : PoloPrint Pro
2. Register or log in to the APP.
3. Get the “ Wifi QR Code ”.

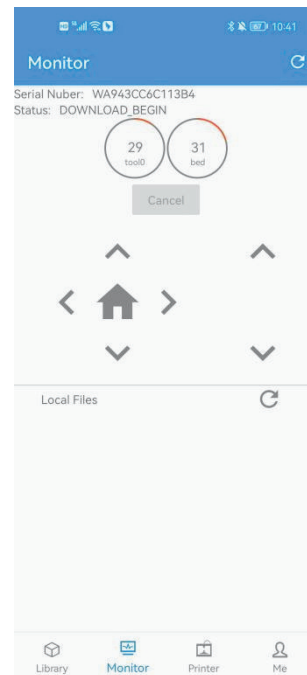
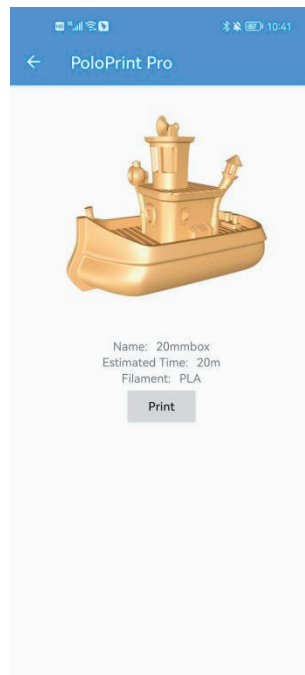
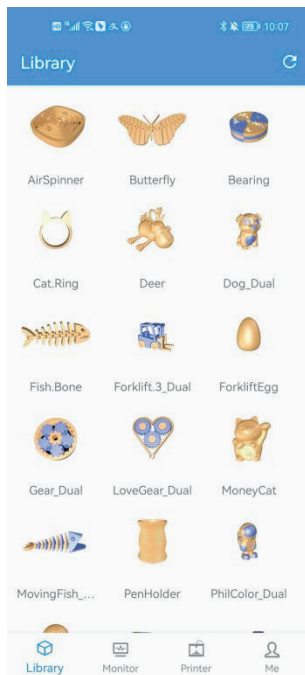
NOTE: THE 3D PRINTER HAS BEEN CONNECTED TO THE NETWORK, AND THE IP ADDRESS IS DISPLAYED. FOR OPERATIONS, PLEASE REFER TO: "5. WIFI NETWORK".



4. Click "Printer", “ + ”, scan the QR code displayed on the screen, and submit the recognized SSID.



5. Select a model and click "Print".



8. COMMON FAULTS

When you encounter hardware or operation problems, you can use the following operations to determine the fault, or you can solve the problem by consulting the “TROUBLESHOOTING” or contacting the after-sales service.

8.1. Filament Feeding Failure

If it is found that the extruder cannot load filament normally, and the extruder gear is still rotating, the extruder is blocked. Please clean the nozzle.

8.2. Printing Failure

If the 3D printer fails to work properly, perform the following operations for troubleshooting.

8.2.1. Perform the action: Print the file

(1) Fault: the temperature of the nozzle is displayed as: -14°C, or there is a failure prompt interface, as shown in the figure below:



Reason: The temperature measurement of the nozzle is faulty, or the cable falls off.

Solution: Replug or replace the temperature measurement cable of the nozzle, or plug in the cable.

(2) Fault: The failure prompt as shown in the figure appears:

Reason: The heating of the nozzle is faulty.

Solution: Replace the sprinkler assembly.

Hozzle Heating fail
PRINTER HALTED
Please Reset

(3) Fault: Restart after 5 seconds, or display:

Reason: The file of the TF card is faulty.

Solution: Format the card.

TF Card Error
PRINTER HALTED
Please Reset

(4) Fault: As soon as the 3D printer is started, it will display whether to "continue printing".

Reason: The file of the TF card is faulty.

Solution: Format the TF card.

8.2.2. Perform the action: turn on the "Endstop" function

Info screen	↗
Prepare	→
Control	→
Print from TF	

Auto home
Level bed
Endstop
Disable steppers
Wizard

Endstops
X: Off
Y: Off
Z: Off
Z-Probe: Off

Fault: Click the X, Y, Z endstop by hand, and observe whether the interface status is changed. Use a metal object to approach the bottom of the Proximity Sensor, observe whether the interface status changes, and whether the light of the Proximity Sensor is on.

Reason: If the state does not change, the X endstop, Y endstop, Z endstop and the proximity sensor may be broken.

Solution: Replace the XYZ endstops or proximity sensor.

8.2.3. Perform the action: turn on the "Auto home" function

Info screen	↗
Prepare	→
Control	→
Print from TF	

Main	↗
Load Filament	
Unload Filament	
Move axis	→
Auto home	

(1) Fault: The nozzle moves to the left and then stops.

Reason: The X endstop wire falls off and is broken. Or the X endstop is broken, please use the "Endstops" to check.

Solution: Reinsert or replace the X endstop cable, or replace the X endstop.

(2) Fault: The nozzle moves to the right, but keeps hitting the X endstop.

Reason: The X endstop wire is broken or short circuited. Or the X endstop is broken, please use the "Endstops" to check.

Solution: Replace the X endstop wire or the X endstop.

(3) Fault: The nozzle does not move and displays:

Reason: X motor cable fell off.

Solution: Replug the X motor cable.

X Homing failed
PRINTER HALTED
Please Reset

(4) Fault: The platform moves backward and hits the Y endstop all the time, showing:

Reason: The Y endstop wire falls off or is broken, or the Y endstop is

Y Homing failed
PRINTER HALTED
Please Reset

broken, please use the "Endstops" to check.

Solution: Reinsert or replace the Y endstop wire, or replace the Y endstop.

(5) Fault: The platform moves forward and then stops.

Reason: The Y endstop wire is broken or short circuited, or the Y endstop is broken, please use "Travel Switch Information" to check.

Solution: Replace the Y endstop wire or the Y endstop wire

(6) Fault: The platform does not move and displays:

Reason: Y motor cable fell off.

Solution: Replug the Y motor cable.

Y Homing failed
PRINTER HALTED
Please Reset

(7) Fault: The nozzle does not move upwards.

Reason: The Z endstop wire is off or broken, or the Z endstop is broken, please use the "Endstops" to check.

Solution: Reinsert or replace the Z endstop wire, or replace the Z endstop.

(8) Fault: The nozzle keeps moving upwards, then hits the Z endstop, and displays:

Reason: The Z endstop wire is broken or short circuited. Or the Z endstop is broken, please use the "Endstops" to check.

Solution: Replace the Z endstop wire, or the Z endstop.

Z Homing failed
PRINTER HALTED
Please Reset

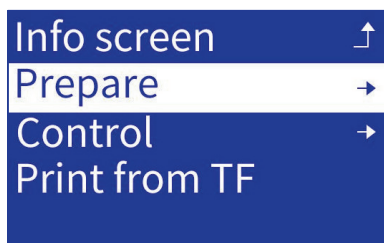
(9) Fault: The nozzle does not move and displays:

Reason: Z motor cable fell off.

Solution: Replug the Z motor cable.

Z Homing failed
PRINTER HALTED
Please Reset

8.2.4. Perform the action: turn on the " Auto Level " function



(1) Fault: The nozzle will not go down (the light of the Proximity Sensor will not be on).

Reason: The proximity sensor wire falls off or is broken.

Solution: Replug or replace the proximity sensor wire.

(2) Fault: The nozzle keeps going down and hits the platform. The indicator light of the proximity sensor will also be on, but there is no output signal.

Reason: The proximity sensor wire is broken or short circuited. Or the proximity sensor is broken, please use the "Endstops" to check.

Solution: Replace the proximity sensor wire, or replace the proximity sensor.

8.3. Other issues

1. Themodeldoesnotsticktotheplatformorisdifficulttoremove,whatshouldIdo? If the gap between the nozzle and the platform is too large, the model will not stick to the platform.

If the gap between the nozzles is too small, the model and the platform will adhere too tightly and it is difficult to remove them. Please use the Z offset function to adjust the gap between the nozzles and the platform.

2. WhatshouldIdoifthenozzlehitsheplatform?

During automatic leveling, if the nozzle hits the platform, it may be caused by the high relative position of the Proximity Sensor and the nozzle.

If the extruder assembly has been replaced before, after loosening the screws securing the extruder, push the extruder up to the highest position, and then lock it.

Secondly, please use the height adjustment function of the Proximity Sensor to reduce the height of the Proximity Sensor. If the problem still cannot be solved, it may be that the Proximity Sensor is faulty, please contact us for after-sales replacement parts.

3. WhatshouldIdoifthenozzlehitsheendstop?

There may be a problem with the endstop or the XY motor. First, please check whether the XY endstop and the motor interface are loose. Secondly, please go through troubleshooting, find the point of failure, and then contact us for after-sales replacement parts.

4. TheAutoBedLevelingfails,whatshouldIdo?

First, please check whether the printing platform is installed and positioned. Secondly, please use the height adjustment function of the Proximity Sensor to reduce the height of the Proximity Sensor.

If the problem still cannot be solved, it may be that the Proximity Sensor is faulty. Please find the fault point through troubleshooting, and then contact us for after-sales replacement parts.

5. Thenozzlecannotbeheated,whatshouldIdo?

Please find the fault point through the troubleshooting of the nozzle heating. If the problem still cannot be solved, please contact our after-sales department, and our technical engineer will provide more detailed guidance.

8.4. Maintenance

The daily maintenance mainly includes: cleaning the nozzle, maintenance of the optical axis and the screw rod, etc.

replacing the magnetic sticker,

8.4.1. Power

1.If it is not used for a long time, please turn off the power.

2.Keep the place of use clean and dry. Prevent dust accumulation on the input and output ports of the power supply. The power supply should be protected from rain and direct sunlight.

8.4.2.Filament

After the printing is completed, please exit the remaining filament from the 3D printer and keep them sealed.

8.4.3.Clean Nozzle

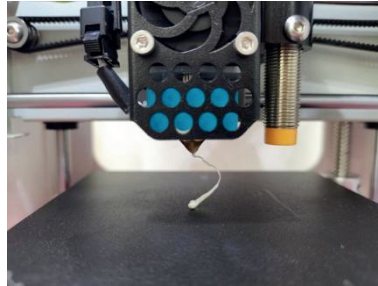
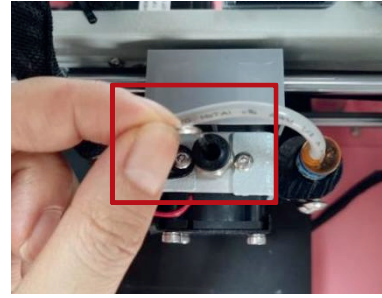
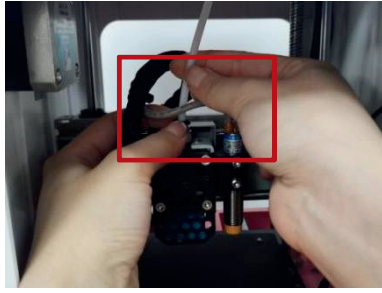
During the 3D printing process, some dust may accumulate around the nozzle. Over time, these build-up can lead to clogging of the nozzle. Therefore, before printing, it is necessary to observe whether the printing nozzle is blocked and clean it.

Maintenance method:

1. Tweezers are generally used to clean the nozzle, and a wiping cloth can remove impurities.



2. How to clear the blockage of the print head: Pull out the end of the guide tube connected to the nozzle (press the Tube Fitting to pull out the filament tube), heat the nozzle to 200 degrees, and use the 1.5mL wrench in the accessory box to enter the nozzle , until the clogged filaments are melted and extruded.

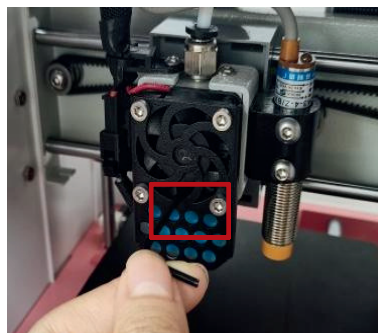


8.4.4. Replace Hotend

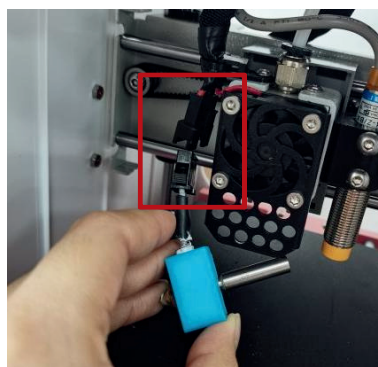
Improper operation or improper selection of filament will cause the nozzle to be blocked. If necessary, the Hotend needs to be replaced.

Disassembly process:

1. First, operate in the shutdown state, use a 2.0mm L-wrench to find the screw that fix the nozzle inside the nozzle fan, and loosen the screw.



2. Open the buckle and remove the Hotend from the bottom. The disassembly process of the Hotend is complete.



3. A new Hotend can be installed and replaced by operation in the reverse direction. After replacing the Hotend, the platform needs to be re-calibrated to start printing the model.

8.4.5.Bearings

During the use of the 3D printer, both X and Y directions rely on precision guide rails and Z axis screw to ensure smooth and precise linear motion. After adding lubricating silicone grease, it can reduce friction and reduce the wear of mechanical moving parts, so it must be maintained regularly. It is recommended to maintain once after 1000 hours of use.

Maintenance method: Get the lubricating silicone grease, apply it evenly on the screw rod or the optical axis, and then start the equipment to make the full stroke of each axis move several times, so that the lubricating silicone grease is evenly distributed on the surface of each axis.

