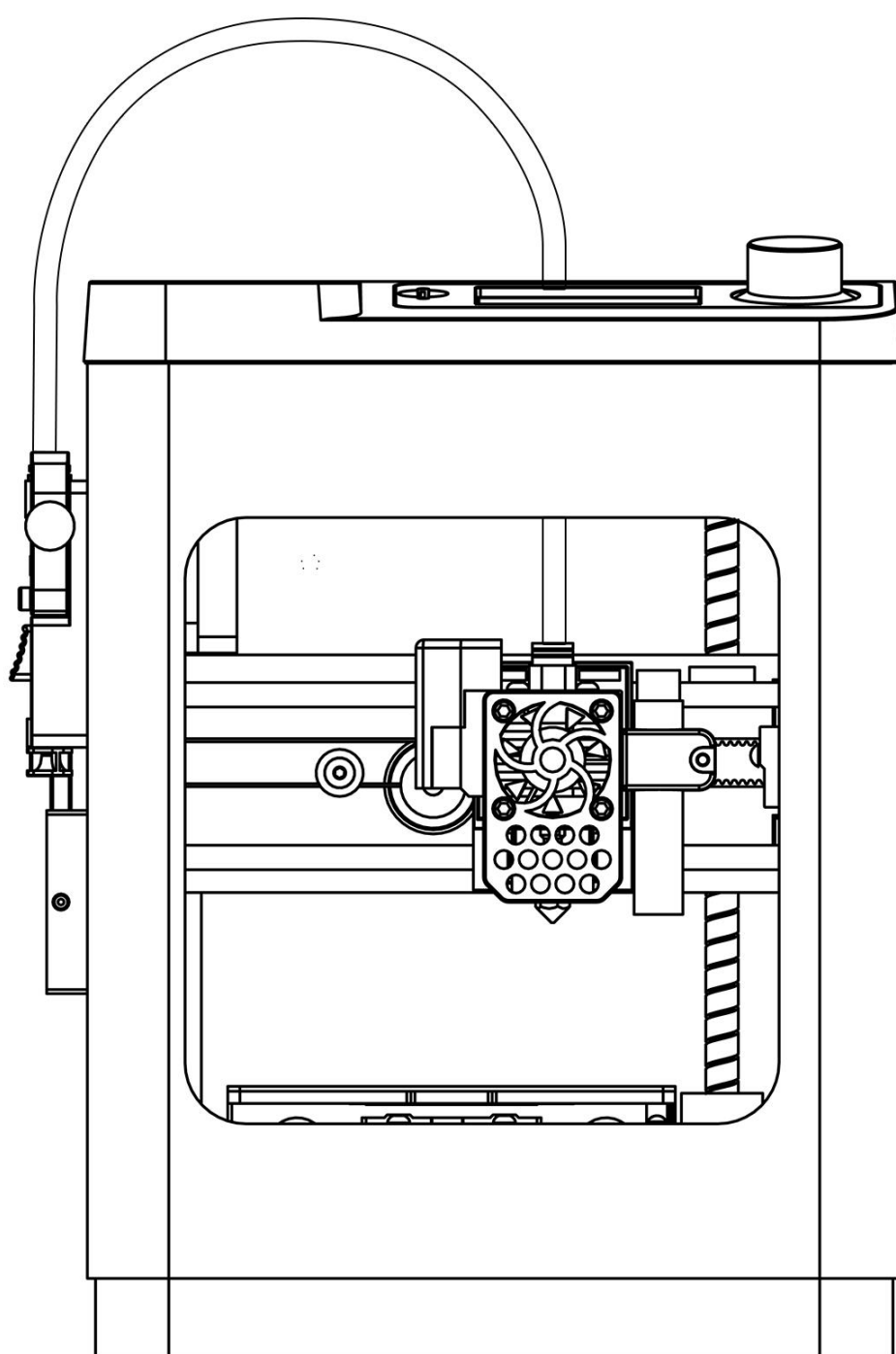


3D  
PRINTER

EN

# USER'S MANUAL



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# 1.NOTES

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

THIS MANUAL IS ONLY APPLICABLE TO TINA2S V12.

## 1.1.Safety Warnings

- Do not touch the nozzle or stepper motors when the 3D printer is operating or just finished printing, as the nozzle temperature can reach up to 230° C.
- Do not expose this device to water or moisture. Keep liquids away from the device. If moisture gets inside, immediately unplug it and let it fully dry before using again.
- Do not handle the device, power cord, or any cables with wet hands.
- Before use, check the unit and power cord for any damage. Do not use if damage is found.
- Ensure the power outlet provides the proper voltage and current required by the device.
- Unplug the device when not in use.
- Protect the power cord from being crimped, pinched, walked on, or tangled. Ensure the cord does not pose a tripping hazard.
- Always unplug by grasping the plug head or adapter body, never by pulling the cord.
- Turn off and unplug the 3D printer before making repairs or performing service.

### Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

#### RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna nr transmitter.

## 1.2.Filament

To ensure optimal performance, only use filament provided by the manufacturer. Third-party filaments may have inconsistent specifications and quality, potentially clogging or damaging the nozzle and motor. Using unauthorized consumables voids the warranty. Store unused filament in a sealed bag to prevent moisture absorption, which can degrade print quality.

## 1.3.Environmental Requirements

This 3D printer is for indoor use only, with an ideal ambient temperature of 15° C - 25° C.

Below 10° C: Printed models may not adhere properly to the platform.

Below 0° C: The device will not start.

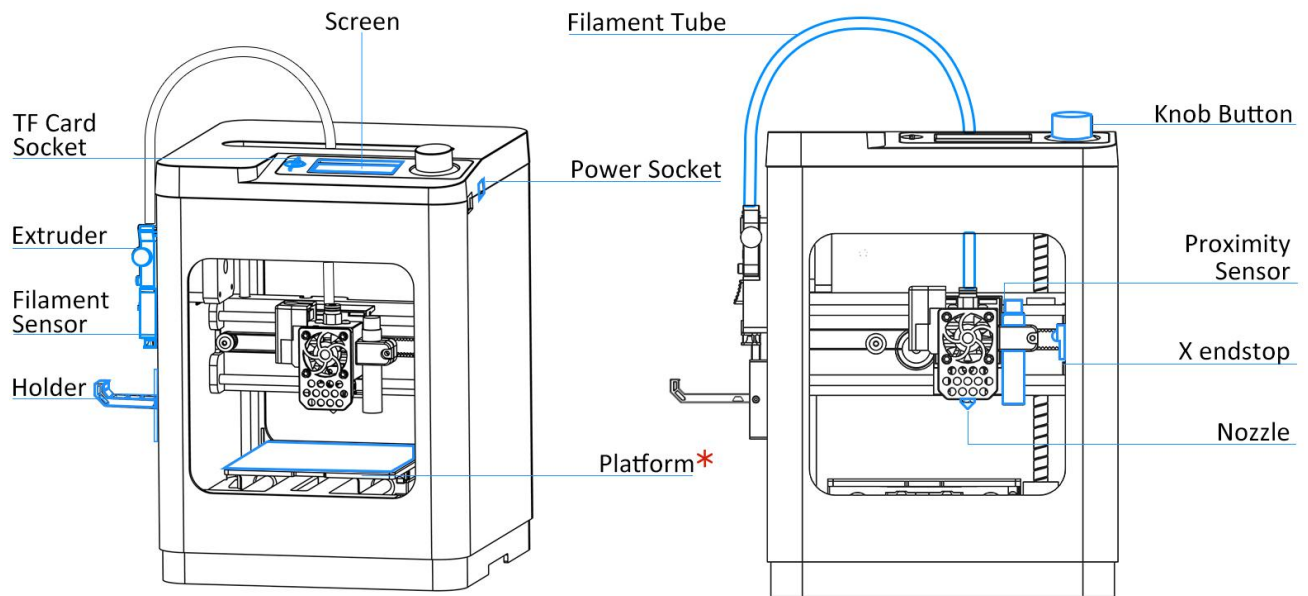
Above 30° C: Print quality will significantly decline and the nozzle may clog.

## 2.INTRODUCTION

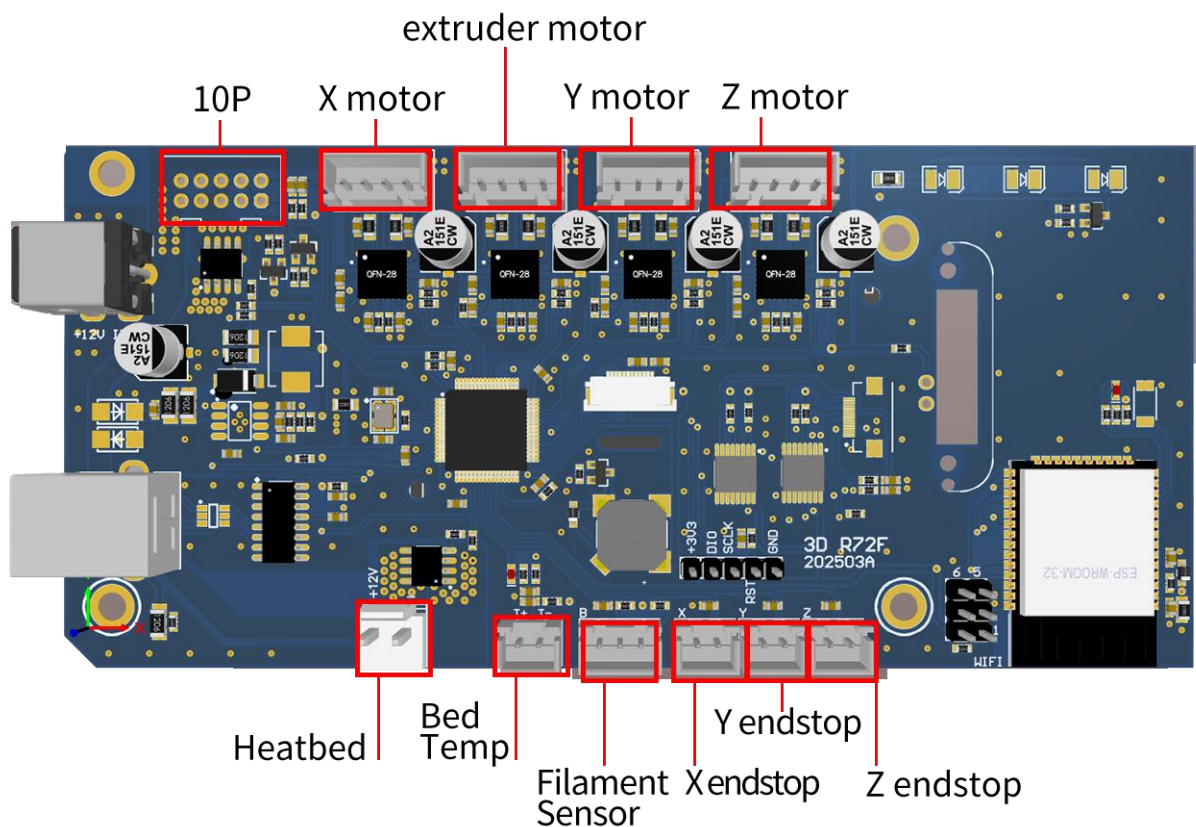
### 2.1.Specification

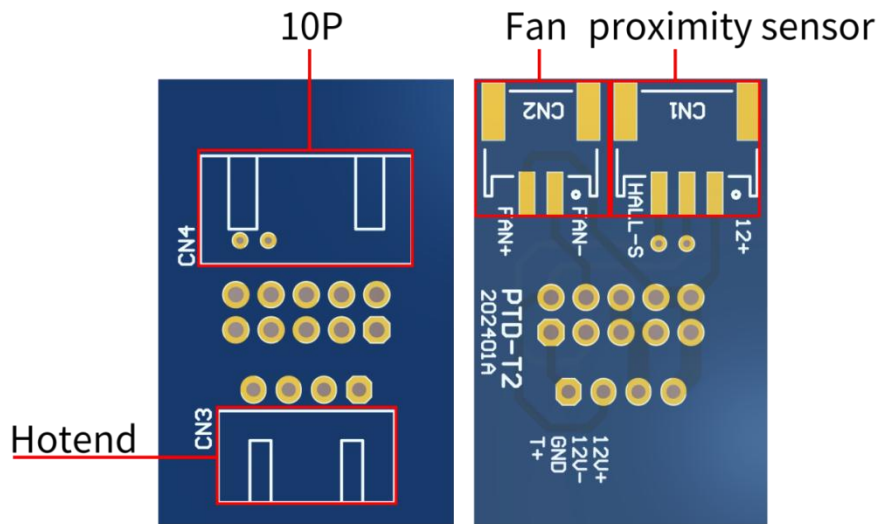
|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Model              | TINA2S V12                                                                                      |
| 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 Tech      | 9-Point Auto Bed Leveling                                                                       |
| Max Nozzle Temp    | 245°C                                                                                           |
| Motherboard        | R72F                                                                                            |
| Max Heated Temp    | 60°C                                                                                            |
| Max Print Speed    | 80mm/s Manual adjustment up to 150 mm/s may result in significant quality degradation.          |
| Print Precision    | ±0.1mm                                                                                          |
| Product Weight     | 3Kg/6.6lbs                                                                                      |
| Power Supply       | AC 100-240V, DC 12V5A, 60W                                                                      |
| Filament Diameter  | 1.75mm                                                                                          |
| Supported Filament | PLA / PLA+ / TPU                                                                                |
| Filament Capacity  | 100-250g (built-in holder)<br>1kg (with extra rack)                                             |
| Slicing Software   | Wiibuilder (Win / Mac)<br>Cura (Win / Mac)<br>Kiri (Chrome OS / iPad)<br>OctoPrint (Pi / Linux) |
| Input File Format  | STL / OBJ / AMF                                                                                 |
| Print Format       | G-code                                                                                          |
| Input Method       | App / TF Card / Wi-Fi / USB                                                                     |
| APP                | Poloprint Cloud (Android / IOS)                                                                 |

## 2.2.Product Overview

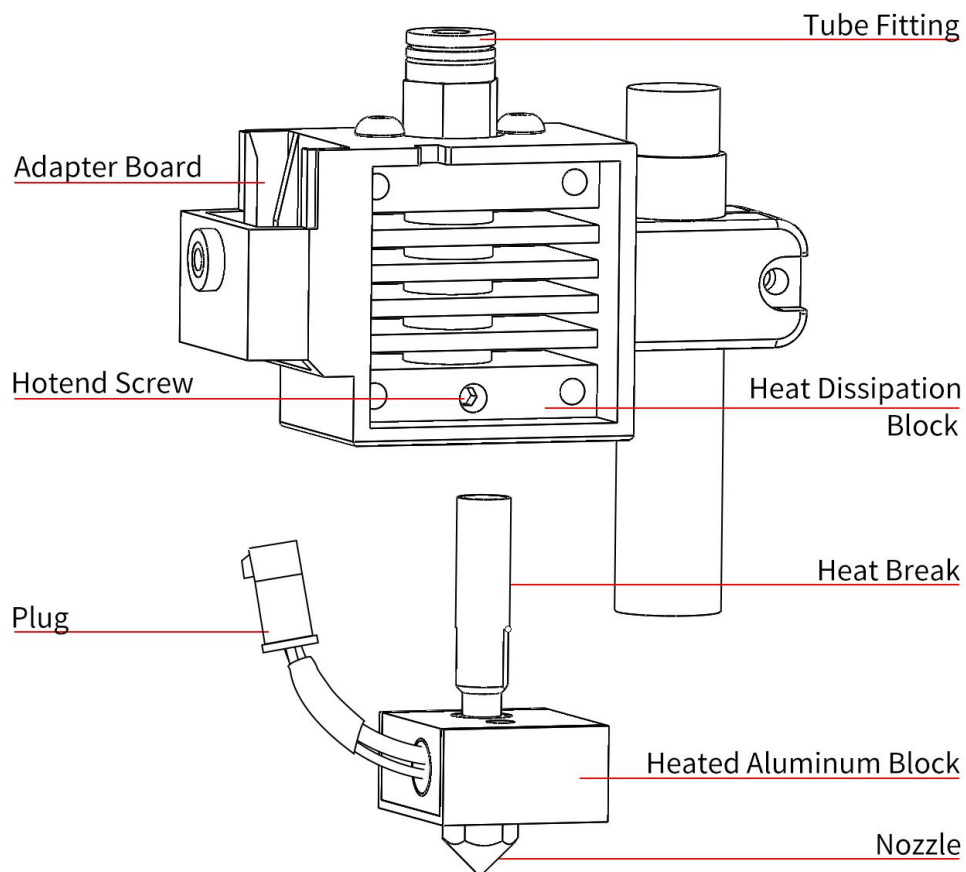


## 2.3.Motherboard and Adapter Board

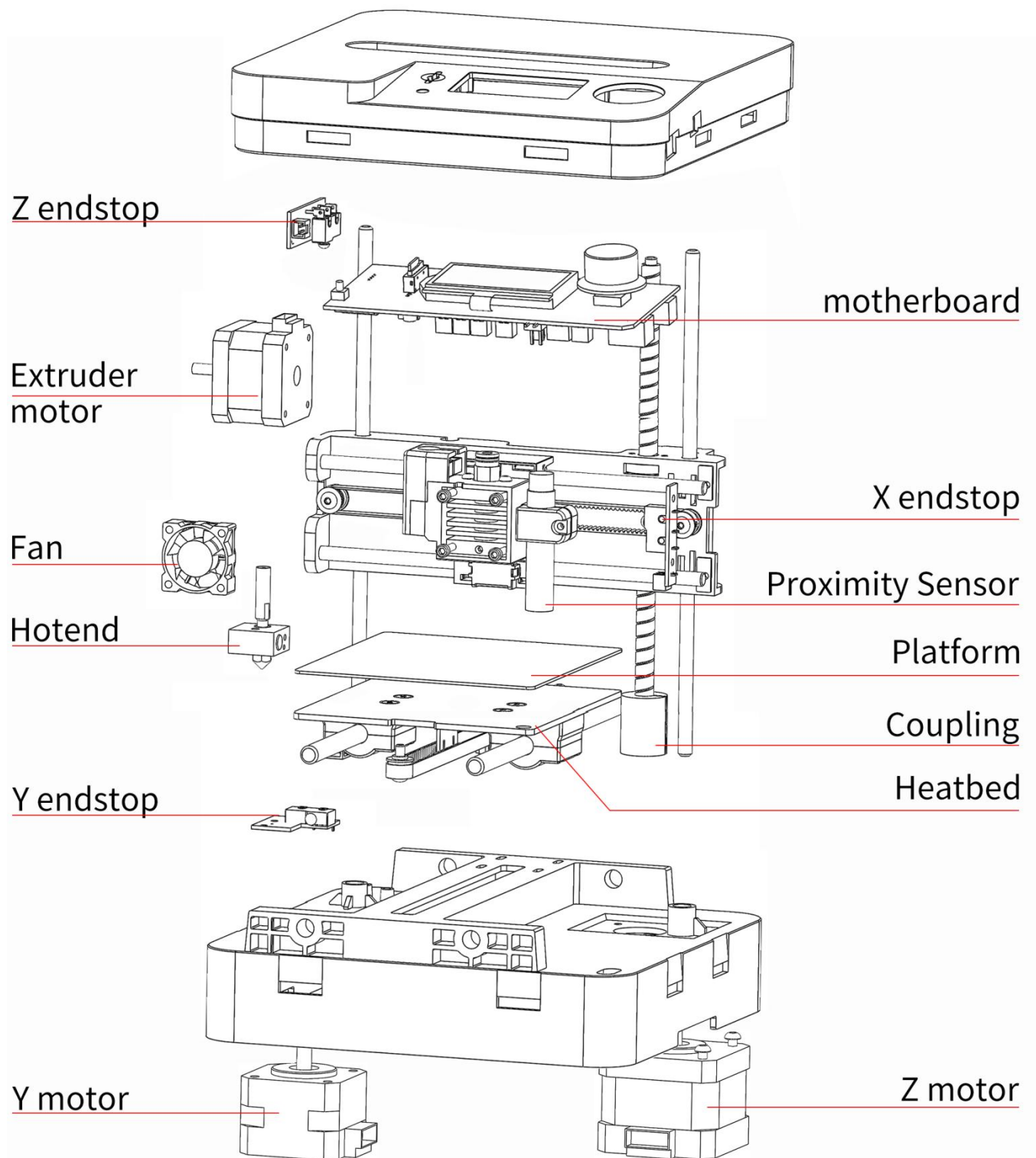




## 2.4.Hotend Structure



## 2.5.Internal Structure

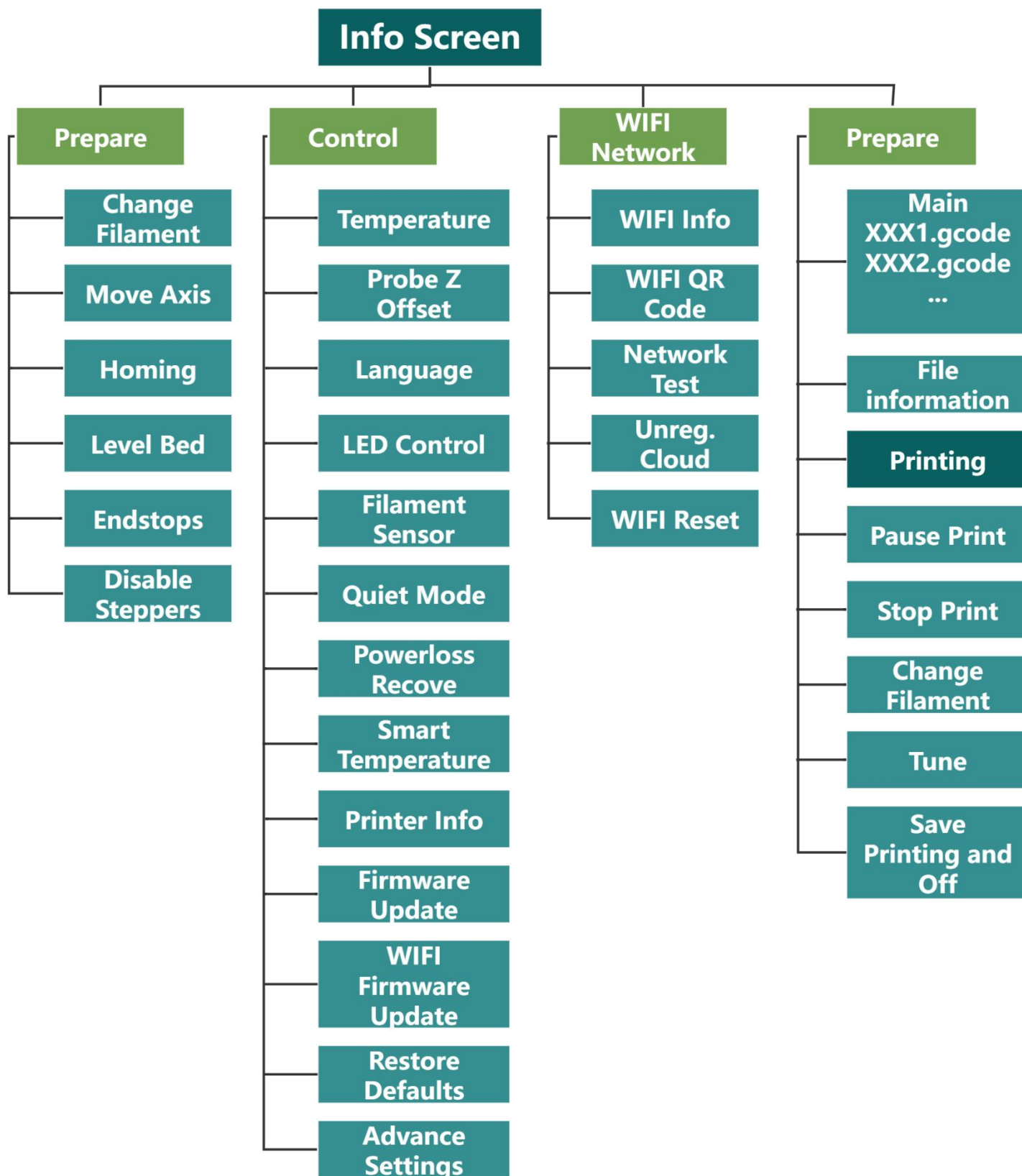


### 3.SYSTEM MENU

The top control panel features:

TF card slot (left): Stores print files

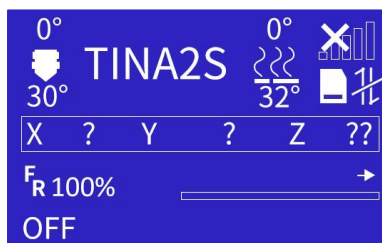
Knob button (right): Access system menu



## 3.1.Info Screen

Knob controls:

- Clockwise turn: Move down in menus, decrease value
- Counterclockwise turn: Move up in menus, increase value
- Press: Enter submenu, select option, confirm value



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, TF card status and cloud platform connection 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.



Press knob for Main Menu:

- Info Screen: Return to Info Screen
- Prepare: Open Prepare menu
- Control: Open Control menu
- WIFI Network: Displays the WiFi information.
- Print From TF: Show TF card files

## 3.2.Prepare Menu

|               |   |
|---------------|---|
| Info screen   | ↗ |
| Prepare       | → |
| Control       | → |
| WIFI Network  | → |
| Print from TF | → |

Press knob to open two-screen Prepare menu. Turn knob to scroll.

|                 |   |
|-----------------|---|
| Main            |   |
| Change Filament |   |
| Move axis       |   |
| Homing          | → |
| Level bed       |   |

|                  |   |
|------------------|---|
| Endstops         | → |
| Disable steppers |   |

### 3.2.1.Change Filament

Use to properly unload and load filament. Do not pull filament out directly to avoid clogs.

|                 |   |
|-----------------|---|
| Main            | ↗ |
| Change Filament |   |
| Move axis       |   |
| Homing          | → |
| Level bed       |   |

|                 |   |
|-----------------|---|
| Main            |   |
| Change Filament |   |
| Load Filament   |   |
| Unload Filament | → |

#### 1. Change Filament:

Select filament type to heat nozzle.

|                 |   |
|-----------------|---|
| Main            | ↗ |
| Change Filament |   |
| Load Filament   |   |
| Unload Filament | → |

|                 |  |
|-----------------|--|
| Change Filament |  |
| Back            |  |
| Preheat PLA     |  |
| Preheat TPU     |  |
| Preheat PETG    |  |

|                 |        |
|-----------------|--------|
| Change Filament |        |
| Heating nozzle  |        |
| Please wait...  |        |
| Nozzle:E1       | 20/240 |

At 240°C, filament auto-unloads.

|                             |         |
|-----------------------------|---------|
| Change Filament             |         |
| Wait for<br>filament unload |         |
| Nozzle:E1                   | 240/240 |

Beep indicates unload complete, insert new filament as prompted.

|                      |
|----------------------|
| Change Filament      |
| Press filament lever |
| Insert 5cm filament  |
| Then press continue  |
| Nozzle:E1 240/240    |

|                                             |
|---------------------------------------------|
| Change Filament                             |
| Wait for<br>filament purge<br>click to skip |
| Nozzle:E1 240/240                           |

## 2. Load Filament:

Auto-heats nozzle and loads filament. Press knob during heating/extruding to cancel.

|                   |
|-------------------|
| Main ↗            |
| Change Filament   |
| Load Filament     |
| Unload Filament → |

|                                  |
|----------------------------------|
| Load Filament                    |
| Heating nozzle<br>Please wait... |
| Nozzle:E1 20/240                 |

## 3. Unload Filament:

Auto-heats nozzle and unloads filament. Press knob during heating/retracting to cancel.

|                 |
|-----------------|
| Main ↗          |
| Change Filament |
| Load Filament   |
| Unload Filament |

|                                  |
|----------------------------------|
| Unload Filament                  |
| Heating nozzle<br>Please wait... |
| Nozzle:E1 20/240                 |

## 3.2.2.Move Axis

Manually control stepper motors for troubleshooting.

|                 |
|-----------------|
| Main ↗          |
| Change Filament |
| Move axis       |
| Homing →        |
| Level bed       |

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

X/Y/Z Axis: 10mm, 1mm, 0.1mm increments

Extruder: 10mm, 1mm, 0.1mm increments

Knob controls bidirectional movement

|          |   |
|----------|---|
| Prepare  | ↕ |
| Move X   | → |
| Move Y   | → |
| Move Z   | → |
| Extruder | → |

|            |   |
|------------|---|
| Move X     |   |
| Move axis  | ↕ |
| Move 10mm  | → |
| Move 1mm   | → |
| Move 0.1mm | → |

Move X: +100.0

|          |   |
|----------|---|
| Prepare  | ↕ |
| Move X   | → |
| Move Y   | → |
| Move Z   | → |
| Extruder | → |

|            |   |
|------------|---|
| Move Y     |   |
| Move axis  | ↕ |
| Move 10mm  | → |
| Move 1mm   | → |
| Move 0.1mm | → |

Move Y: +100.0

|          |   |
|----------|---|
| Prepare  | ↕ |
| Move X   | → |
| Move Y   | → |
| Move Z   | → |
| Extruder | → |

|            |   |
|------------|---|
| Move Z     |   |
| Move axis  | ↕ |
| Move 10mm  | → |
| Move 1mm   | → |
| Move 0.1mm | → |

Move Z: +100.0

|          |   |
|----------|---|
| Prepare  | ↕ |
| Move X   | → |
| Move Y   | → |
| Move Z   | → |
| Extruder | → |

|            |   |
|------------|---|
| Extruder   |   |
| Move axis  | ↕ |
| Move 10mm  | → |
| Move 1mm   | → |
| Move 0.1mm | → |

Extruder: +100.0

#### CAUTION:

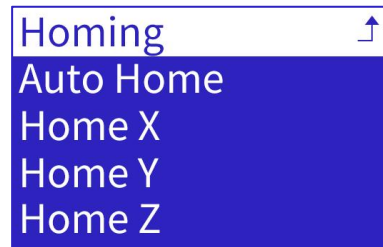
RANGE IS 0-100MM PER AXIS. PERFORM "AUTO HOME" FIRST FOR CORRECT NOZZLE COORDINATES. WITHOUT HOMING, CURRENT POSITION BECOMES ORIGIN, LIMITING JOG RANGE.

AXIS MOVEMENT LIMITED BY ENDSTOPS. BROKEN OR MISWIRED ENDSTOPS MAY CAUSE MOTOR TO NOT STOP OR MOVE.

EXTRUDER HAS THERMAL PROTECTION, ONLY MOVES WHEN NOZZLE IS >170° C.

### 3.2.3.Homing

Moves nozzle and platform to origin (X=0, Y=0, Z=0). Can home XYZ together or separately. Helps troubleshoot motor or endstop issues in a specific direction.



### 3.2.4.Level Bed

Auto-levels platform using proximity sensor. Done at each print start to ensure proper nozzle-platform distance.

Can diagnose proximity sensor issues - error displays if sensor fails.



### 3.2.5.Endstops

Shows X/Y/Z endstop and proximity sensor status. Moving nozzle or platform to trigger endstops changes each one's state.

Helps diagnose faulty endstops or sensor - no state change indicates failure.



### 3.2.6.Disable Steppers

Releases stepper motor locking, allowing manual nozzle and platform movement.



### 3.3.Control Menu

|               |   |
|---------------|---|
| Info screen   | ↕ |
| Prepare       | → |
| Control       | → |
| WIFI Network  | → |
| Print from TF | → |

Press knob to open two-screen Control menu. Turn knob to scroll.

|                |    |
|----------------|----|
| Main           | ↕  |
| Temperature    | →  |
| Probe Z Offset | →  |
| Language       |    |
| LED Control:   | On |

|                    |     |
|--------------------|-----|
| Filament Sensor:   | On  |
| Quiet Mode:        | Off |
| Powerloss Recove:  | Off |
| Smart Temperature: | On  |
| Printer Info       | →   |

|                      |   |
|----------------------|---|
| Firmware Update      | → |
| WIFI Firmware Update | → |
| Restore Defaults     |   |
| Advanced Settings    | → |

#### 3.3.1.Temperature

Manually set nozzle and bed temperature:

|                |    |
|----------------|----|
| Main           | ↕  |
| Temperature    | →  |
| Probe Z Offset | →  |
| Language       |    |
| LED Control:   | On |

|             |   |
|-------------|---|
| Control     | ↕ |
| Nozzle:     | 0 |
| Bed:        | 0 |
| Preheat PLA |   |
| Preheat TPU |   |

Select Nozzle or bed, turn knob to desired temp, press to confirm.

Info Screen shows real-time temp during heating. Heating continues if exiting to other tasks.

To stop heating, re-enter menu and decrease temp to 0.

|         |    |
|---------|----|
| Nozzle: | 50 |
|---------|----|

|      |    |
|------|----|
| Bed: | 30 |
|------|----|

Preheat PLA/TPU/PETG: Background heats nozzle to 210°C/220°C/230°C respectively.

### 3.3.2.Probe Z Offset

After bed leveling, sets nozzle-platform gap. Press knob to save.

Too small: Nozzle may scratch platform or clog.

Too large: Poor model adhesion, lifting.

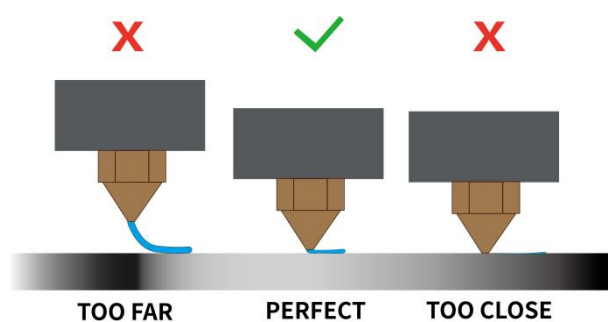
Recalibrate after replacing nozzle or sensor.

|                |    |
|----------------|----|
| Main           | ↕  |
| Temperature    | →  |
| Probe Z Offset | →  |
| Language       |    |
| LED Control:   | On |

Moving...

Adjust Z Offset(mm):  
00.30

Turn knob to precisely adjust nozzle height for smooth, flat first layer.



### 3.3.3.Language

Select from: English, Chinese, French, German, Spanish, Italian, Japanese, Portugal, Dutch, Turkish and Russian.

Turn knob to select, press to save and exit.

|                |    |
|----------------|----|
| Main           | ↕  |
| Temperature    | →  |
| Probe Z Offset | →  |
| Language       |    |
| LED Control:   | On |

|         |   |
|---------|---|
| Control | ↕ |
| English |   |
| Chinese |   |
| French  |   |
| German  |   |

|          |
|----------|
| Spanish  |
| Italian  |
| Japanese |
| Portugal |
| Dutch    |

|         |
|---------|
| Turkish |
| Russian |

### 3.3.4.LED Control

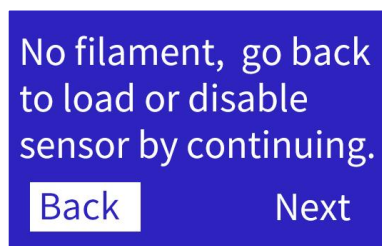
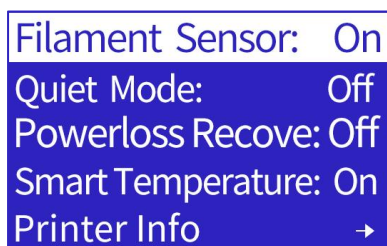
Press "LED Control" to open the LED switch menu.

Press the knob to confirm and save.



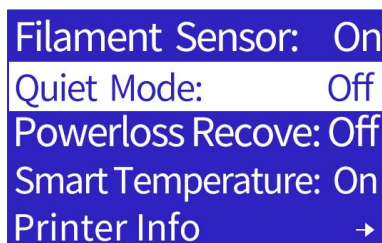
### 3.3.5.Filament Sensor: On

Press the button to toggle the filament break detection function ON or OFF. This feature is enabled by default. When no filament is loaded and you attempt to start printing or during printing, a reminder will automatically appear on the screen.



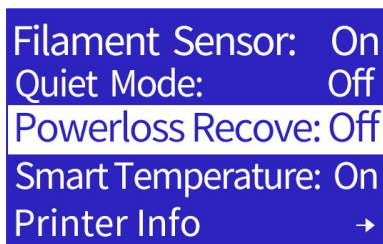
### 3.3.6.Quiet Mode: Off

Press the button to switch OFF/ON .The mute function is turned off by default. If you choose to enable it, the printer will significantly reduce its printing speed in order to lower the operating noise.



### 3.3.7.Powerloss Recove: Off

Press the button to switch OFF/ON .



If enabled, saves print progress every 10s. After unexpected power loss, prompts to resume on restart.

Disabled by default. Enable if desired.

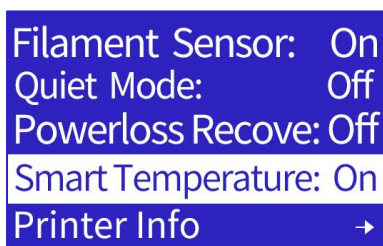
IMPORTANT:

PROGRESS SAVED TO ".BIN" FILE ON TF CARD EVERY 10S, OVERWRITING PREVIOUS DATA. ON RESTART AFTER SUDDEN POWER LOSS, CHECKS FOR ".BIN" FILE AND PROMPTS "CONTINUE PRINTING, STOP PRINTING". CONTINUING READS SAVED PROGRESS, STOPPING DELETES ".BIN" FILE.

SINCE SAVING ONLY EVERY 10S, RECOVERY MAY FAIL DUE TO TIME INTERVAL.

### 3.3.8.Smart Temperature

Press the button to switch OFF/ON .



The smart temperature feature is turned on by default. The mainboard can monitor the ambient temperature and increase the temperature of the nozzle and platform according to the ambient temperature.

### 3.3.9.Printer Info

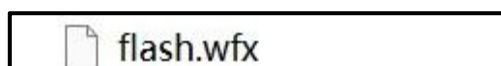
Shows current firmware version.

Filament Sensor: On  
 Quiet Mode: Off  
 Powerloss Recove: Off  
 Smart Temperature: On  
 Printer Info →

Printer Info  
 Machine: TINA2S  
 Hardware: 25WDV1  
 Version: 3.0.5

### 3.3.10.Firmware Update

1.Copy ".wfx" firmware file to TF card root. Decompress first if needed. Rename to "flash.wfx".



2.Insert TF card and select Firmware Update.

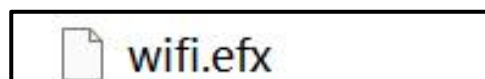
3.Printer checks version and updates.

Firmware Update →  
 WIFI Firmware Update →  
 Restore Defaults  
 Advanced Settings →

Firmware Update  
 flash.wfx has found

### 3.3.11.WIFI Firmware Update

1.Copy ".efx" WiFi firmware file to TF card root. Decompress first if needed. Rename to "wifi.efx".



2.Insert TF card and select WiFi Firmware Update.

3.Printer checks version and updates.

Firmware Update →  
 Wifi firmware Update  
 Restore Defaults  
 Advanced Settings →

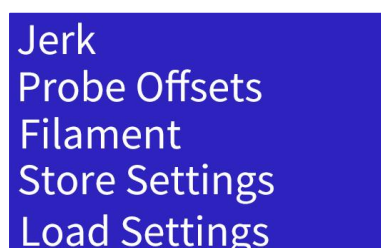
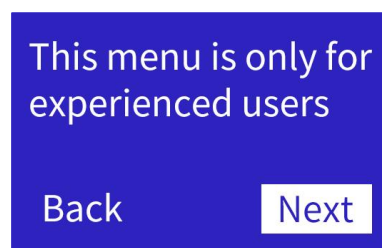
### 3.3.12.Restore Defaults

Resets all parameters to factory defaults.



### 3.3.13.Advance Settings

Modify advanced parameters. Beginners use defaults.



LCD Contrast: Adjust screen clarity

Retract: Auto-retract, amount, speed, etc.

Max Speed (mm/s): Same as in slicer

Acceleration: Increase print speed

Jerk: Increase acceleration ramp time and corner/jitter speed

Probe Offsets: Set X/Y/Z offsets

Filament: Set extruder compensation

Store Settings: Save changes

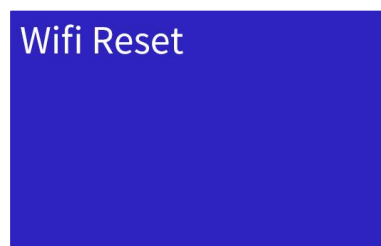
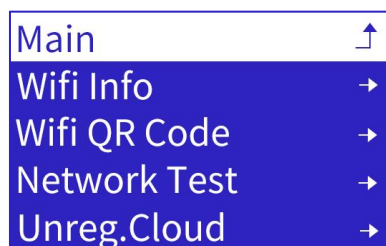
Load Settings: Apply saved changes

Initialize EEPROM: Reset to defaults

## 3.4.WIFI Network



Press knob to open two-screen Control menu. Turn knob to scroll.



The network function of TINA2S has two connection modes, local mode, and remote mode.

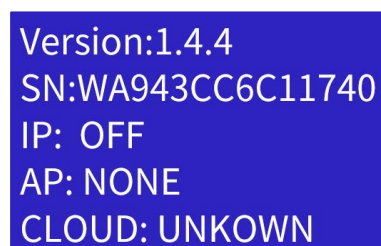
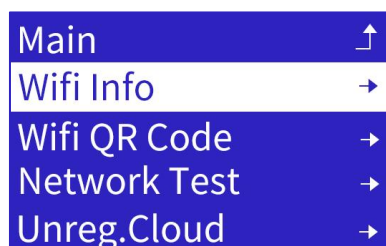
Local mode: In the same local area network, Wiibuilder or Cura on the computer can connect to the 3D printer, and perform remote control or send print files. To use local mode, the 3D printer should be connected to the local WIFI network.

Remote mode: Use our APP, PoloPrint Cloud, 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.

### 3.4.1.WIFI Info

Press "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.

Before the network is configured, "OFF" and "UNKNOWN" will be displayed.

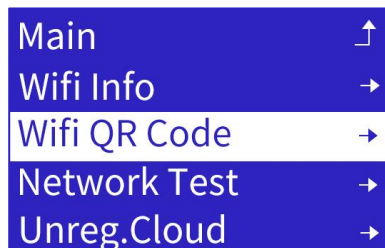


Only after configuring the network and registering in the APP will the 3D printer connect to the cloud server.

Version:1.4.4  
SN:WA943CC6C11740  
IP:192.168.10.250  
AP:WBS-OFFICE-2.4G  
CLOUD: CONNECTED

### 3.4.2.WIFI QR Code

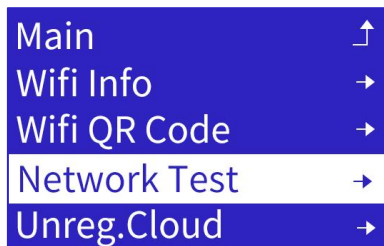
Press "WIFI QR Code" to show the QR code generated by the device serial. Used for App scanning networking and cloud access.



### 3.4.3.Network Test

Press "Network Test" to start testing the current network connection and response time.

If the printer encounters network or app-related issues, use this function to check whether the network is properly connected or if the connection speed is too slow.



Test Start  
WIFI Configured  
WIFI Connected  
Gateway: 4ms  
Server: 37ms

Test End

### 3.4.4.Unreg. Cloud

Press "Unreg. Cloud" to view the instructions for deregistering from the cloud platform.

Please follow the tutorial to complete the operation in the app.

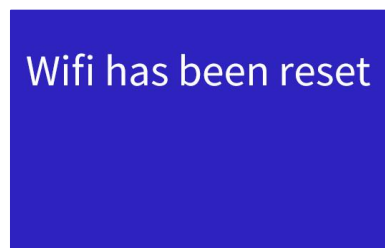
|              |   |
|--------------|---|
| Main         | ↕ |
| Wifi Info    | → |
| Wifi QR Code | → |
| Network Test | → |
| Unreg.Cloud  | → |

Log in with the bound app account, open the device page, tap the device, then tap Delete icon.

Next

### 3.4.5.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.



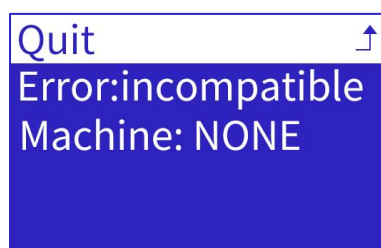
### 3.5.Print from TF



Shows ".gco" or ".gcode" print files on TF card.



If the correct printer is not selected when using slicer software like Wiibuilder or custom Cura, the generated G-code file will be incompatible with the printer, resulting in an 'incompatible' error message. Make sure to select TINA2S.



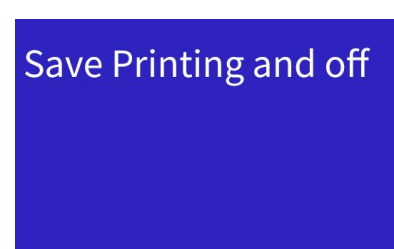
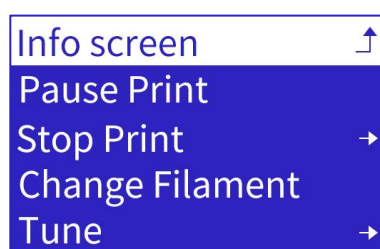
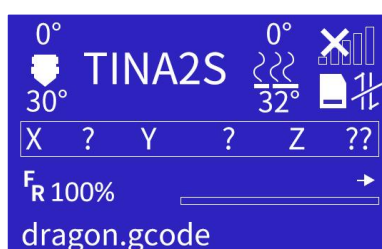
Select file and press knob for print info. "Print" starts printing.

To prevent damage, checks machine model in file. Blocks print if model mismatched or missing. Use Wiibuilder or custom Cura version and select correct model when slicing.

NOTE: FILE NAMES ≤20 CHARACTERS TO AVOID DISPLAY ISSUES.

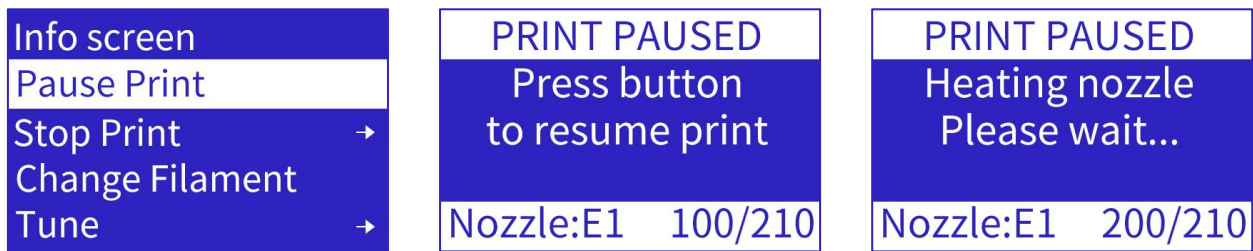


During print, press knob for print settings menu.



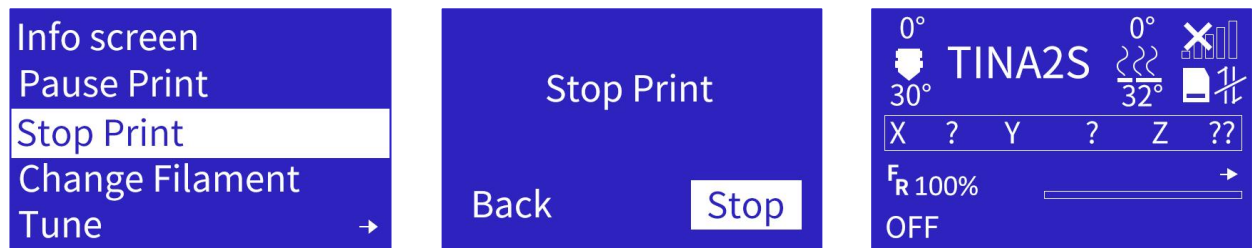
### 3.5.1. Pause Print

Pauses print and moves nozzle to pause position. Can resume from pause.



### 3.5.2. Stop Print

Cancels current print and returns to Info Screen.



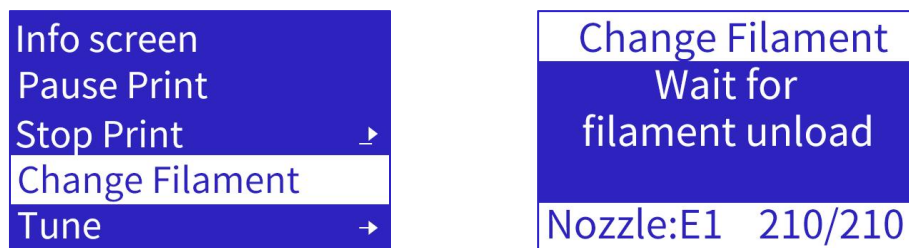
IMPORTANT:

REMOVE PRINTED MODEL FROM PLATFORM AFTER STOPPING.

### 3.5.3. Change Filament

Same steps as Change Filament in Prepare menu:

Heat to set temp. Auto-unload at temp.



Beep, insert new filament, press knob. Auto-load at temp.



### 3.5.4.Tune

To change:

Select setting, turn knob to desired value.

Press knob to confirm.

|                 |   |
|-----------------|---|
| Info screen     |   |
| Pause Print     |   |
| Stop Print      | → |
| Change Filament |   |
| Tune            |   |

|         |     |
|---------|-----|
| Main    | ↕   |
| Speed:  | 100 |
| Nozzle: | 200 |
| Bed:    | 0   |
| Flow:   | 100 |

|                |      |
|----------------|------|
| Advance K:     | 0.20 |
| Probe Z Offset | →    |

#### 1.Speed

|         |     |
|---------|-----|
| Main    | ↕   |
| Speed:  | 100 |
| Nozzle: | 200 |
| Bed:    | 0   |
| Flow:   | 100 |

|        |     |
|--------|-----|
| Speed: | 100 |
|--------|-----|

#### 2.Nozzle temp

|         |     |
|---------|-----|
| Main    | ↕   |
| Speed:  | 100 |
| Nozzle: | 200 |
| Bed:    | 0   |
| Flow:   | 100 |

|         |     |
|---------|-----|
| Nozzle: | 200 |
|---------|-----|

#### 3.Nozzle temp

|         |     |
|---------|-----|
| Main    | ↕   |
| Speed:  | 100 |
| Nozzle: | 200 |
| Bed:    | 0   |
| Flow:   | 100 |

|      |    |
|------|----|
| Bed: | 30 |
|------|----|

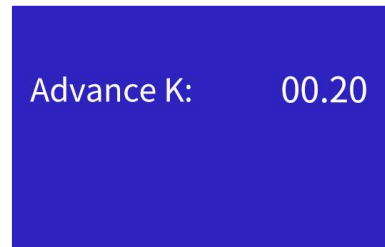
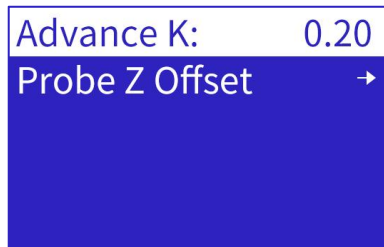
#### 4.Advance K

Advance K (Linear Advance) is a parameter used to optimize extruder pressure control.

It dynamically adjusts the extrusion flow during acceleration and deceleration phases to compensate for material pressure changes inside the nozzle.

This improves surface detail and print quality while reducing issues such as stringing and blobs.

In simple terms, it helps the extrusion keep up with speed changes, especially during rapid accelerations and decelerations.



#### 5.Probe Z Offset

IMPORTANT:

Z OFFSET MICRO-ADJUSTS NOZZLE HEIGHT IN REAL-TIME TO CHANGE GAP:

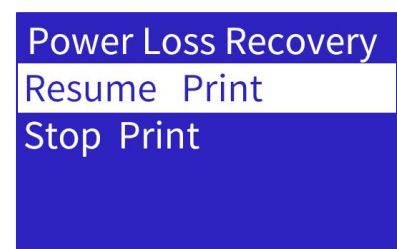
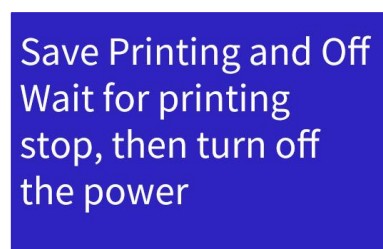
INCREASE BY 0.2MM IF GAP TOO SMALL (NO EXTRUSION)

GRADUALLY DECREASE IF GAP TOO LARGE (POOR ADHESION)



### 3.5.5.Save Printing and Off

Saves progress, moves to pause position, allows safe power off. Prompts to resume on next power on.



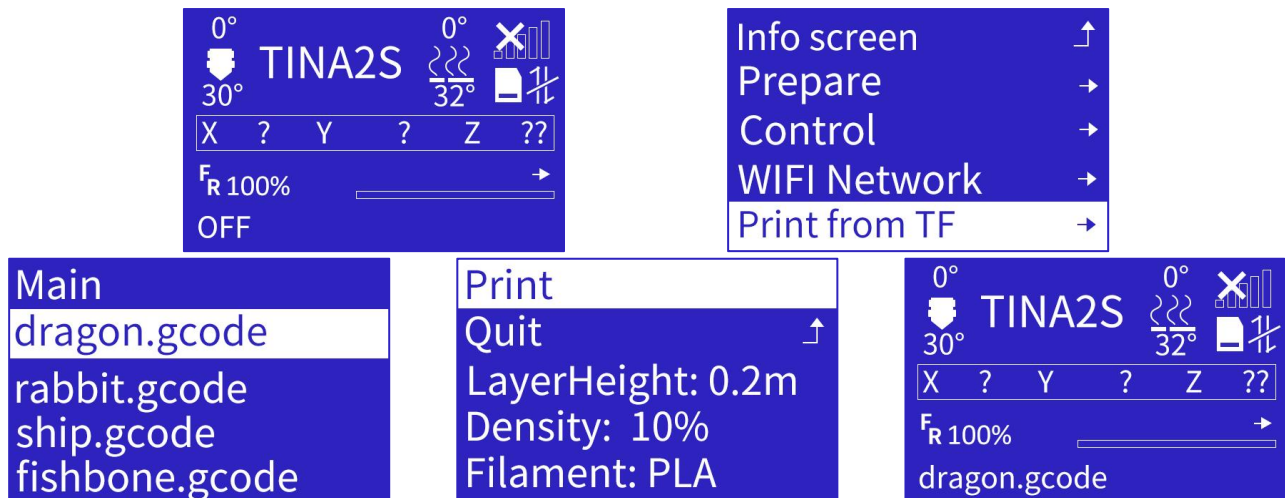
IMPORTANT:

"PAUSE PRINT" AND "SAVE PRINT" TRIGGER HOMING. MECHANICAL ENDSTOP TOLERANCES CAUSE SLIGHT DEVIATION ON EACH HOME, POTENTIAL SEAM/SHIFT AT RESUME POINT.

PRINT MODELS IN ONE SESSION WHEN POSSIBLE TO AVOID THIS.

## 4.COMMON MENU OPERATIONS

### 4.1.Print from TF Card

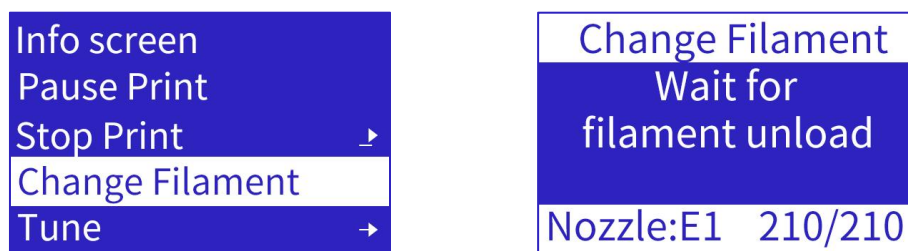


- 1.Open Main Menu, select "Print From TF"
- 2.Turn knob to select file, press knob to start print.

### 4.2.Print Multi-Color Models / Change Filament During Print

Same steps as Change Filament in Prepare menu:

Heat to set temp.Auto-unload at temp.



Beep, insert new filament, press knob.Auto-load at temp.

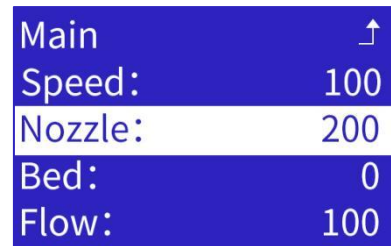
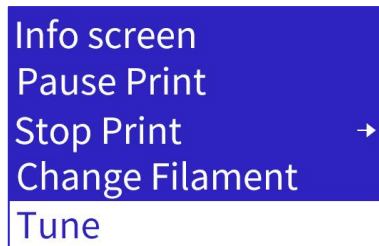
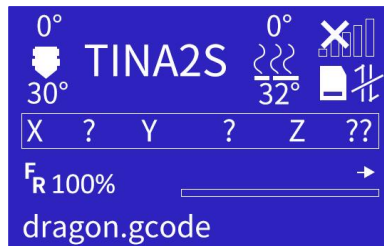


### 4.3.Adjust Temperature During Print

During print, press knob for print settings menu, select Tune > Nozzle to adjust temp:

Turn knob to increase/decrease temp.

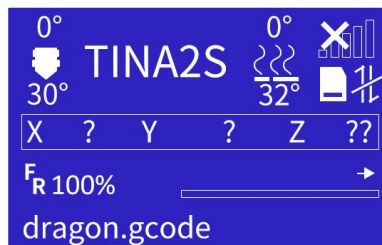
Press knob to return.



## 4.4.Adjust Z Offset During Print

During print, press knob for print settings menu, select Tune > Probe Z Offset to fine-tune nozzle-platform gap:

Turn knob to micro-adjust gap.



ALLOWS REAL-TIME Z-AXIS ADJUSTMENT TO CHANGE GAP DURING PRINT:

INCREASE BY 0.2MM IF GAP TOO SMALL (NO EXTRUSION)

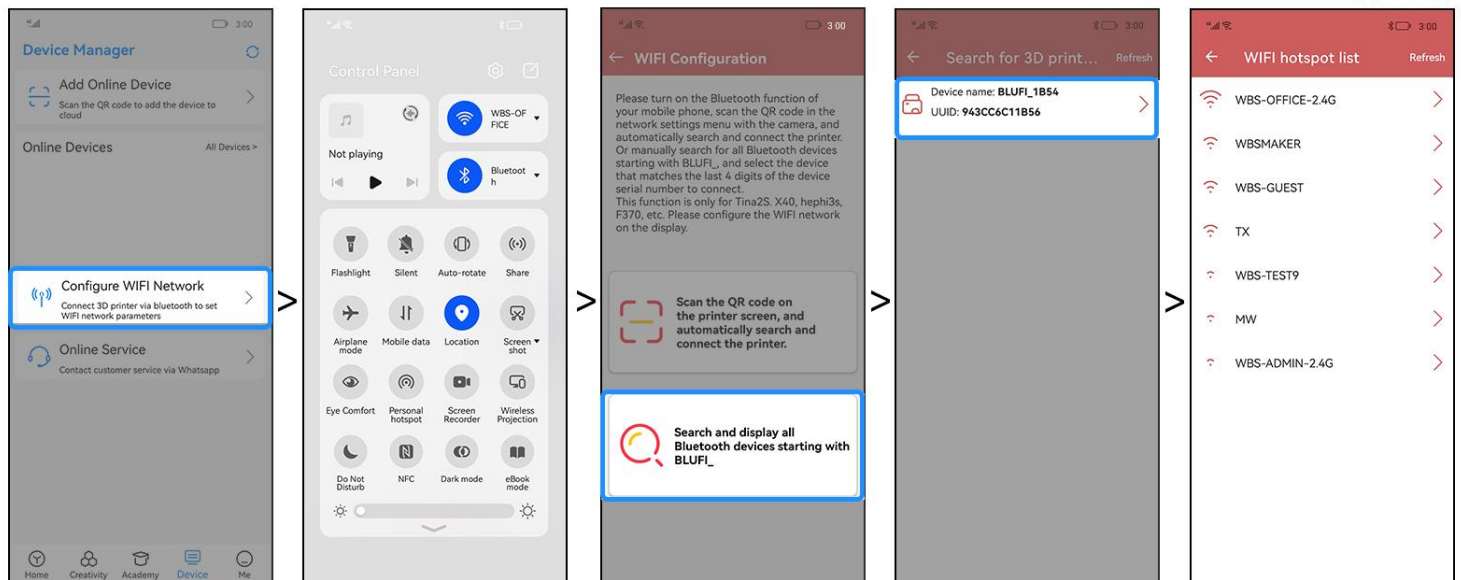
GRADUALLY DECREASE IF GAP TOO LARGE (POOR ADHESION)

# 5.PRINT BY APP

1.Download and install the APP : PoloPrint Cloud

2.Register or log in to the APP.

3.Configure WiFi for 3D printer.

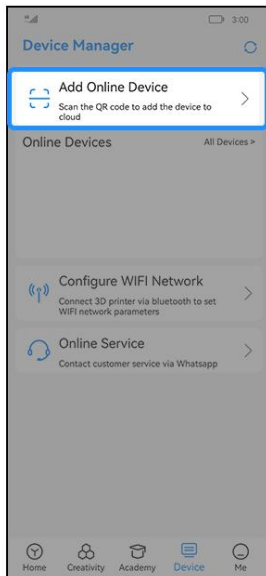


4.Get the “ Wifi QR Code ”.

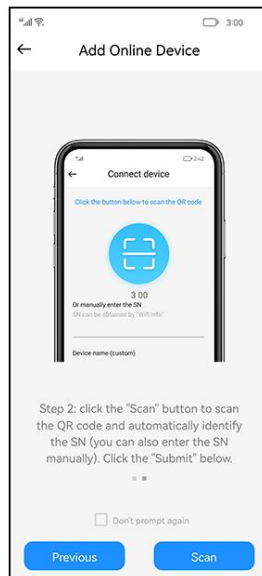
NOTE: THE 3D PRINTER HAS BEEN CONNECTED TO THE NETWORK, AND THE IP ADDRESS IS DISPLAYED.



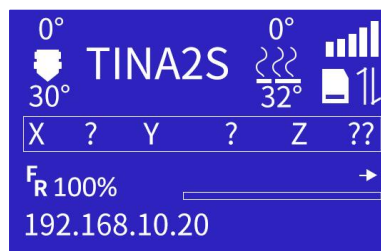
5.Click "Add Online Device ", scan the QR code displayed on the screen, and submit the recognized SSID.



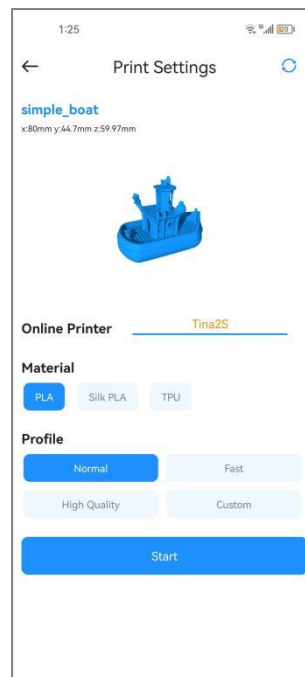
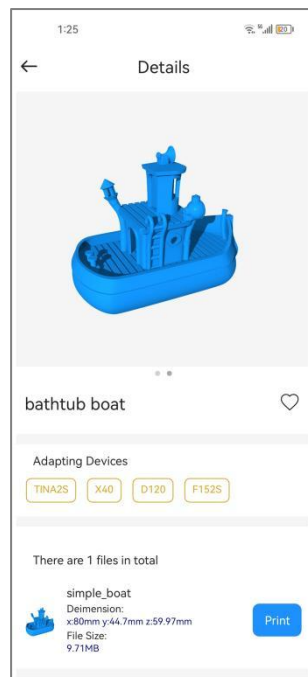
>



>



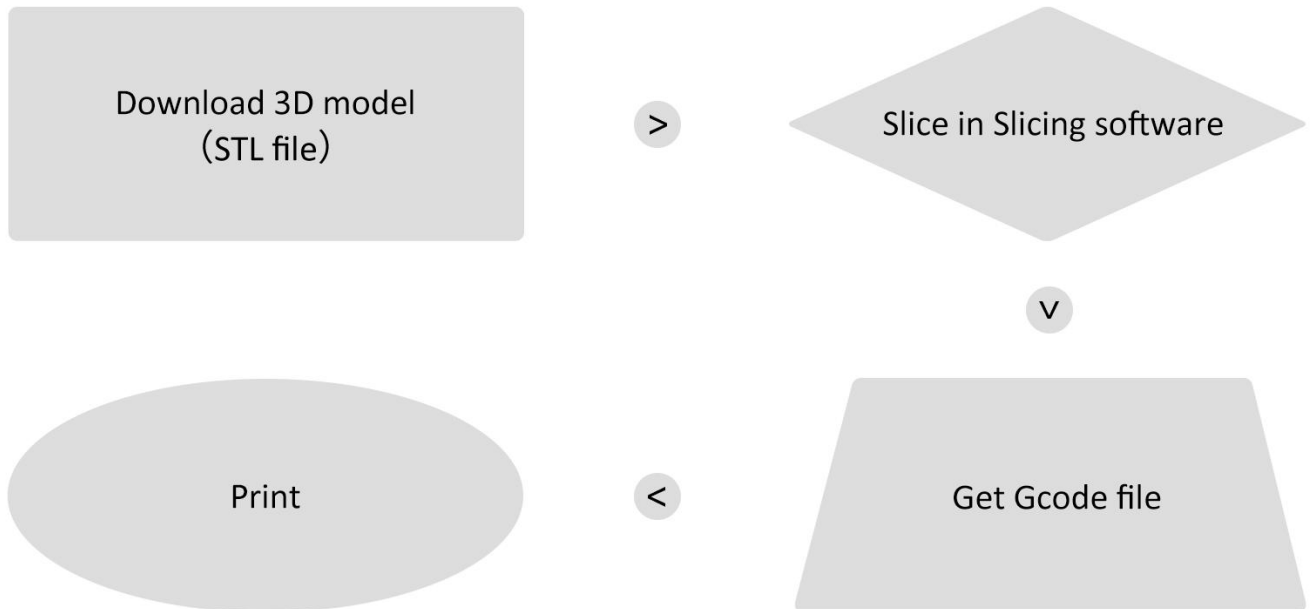
6.Select a model and click "Print".



## 6.WIIBUILDER SLICING SOFTWARE

3D models usually STL files, not directly recognized by 3D printers. Models processed in slicing software to generate Gcode files for printing.

3D printing process:



Slicing software installed on computer. Common options: Wiibuilder, Cura. Wiibuilder developed in-house, user-friendly, recommended.

Wiibuilder included on printer's TF card. Use card reader to view TF contents on PC for installation.

System requirements for Wiibuilder:

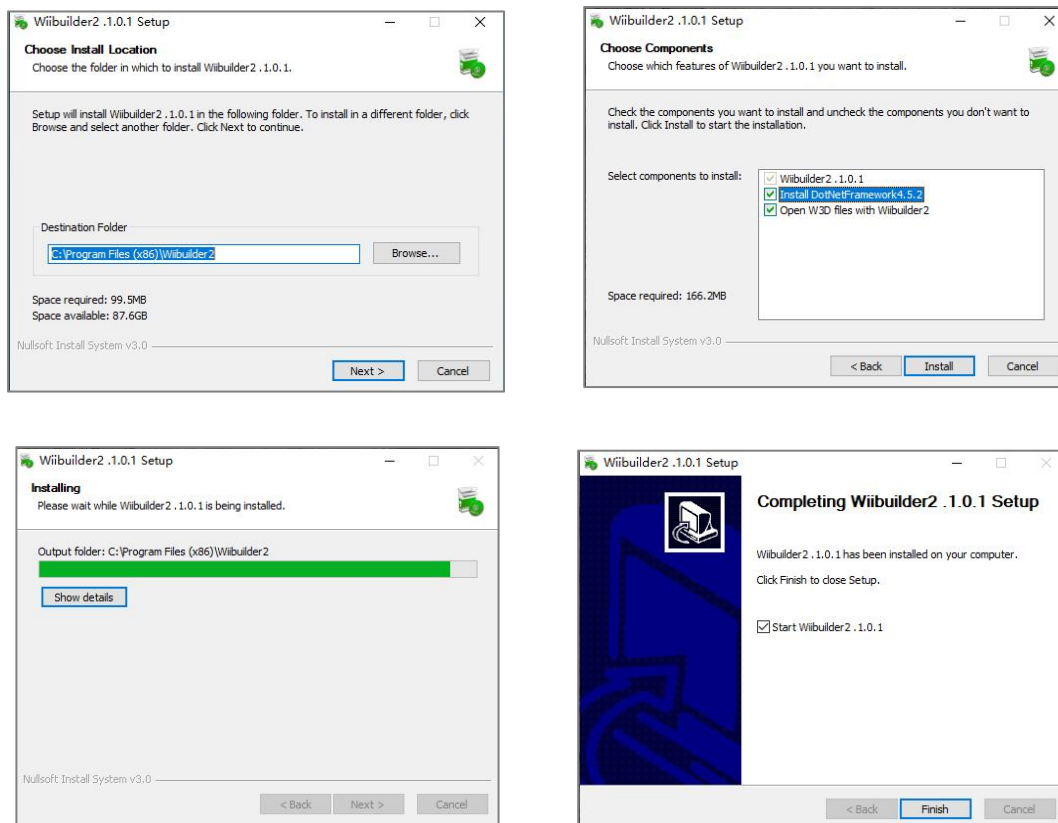
- CPU: Pentium 1GHz
- RAM: 1GB minimum
- Disk: 1GB+ free space
- Display: 640x480 minimum
- Graphics: 3D acceleration, OpenGL 2.0+
- Color: 256 colors minimum
- OS: Windows 7+ / MacOS 10.13.6+
- Other: .Net Framework 4.5.2+

## 6.1.Installation

### 6.1.1.Installation on Windows

Steps to install Wiibuilder:

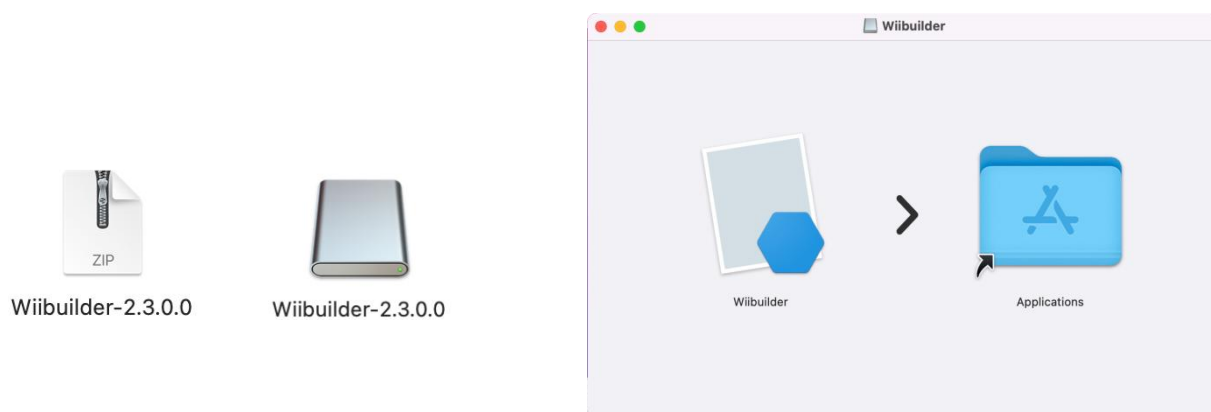
Locate and run Wiibuilder.exe on TF card. Click Install > Next > Finish to continue.



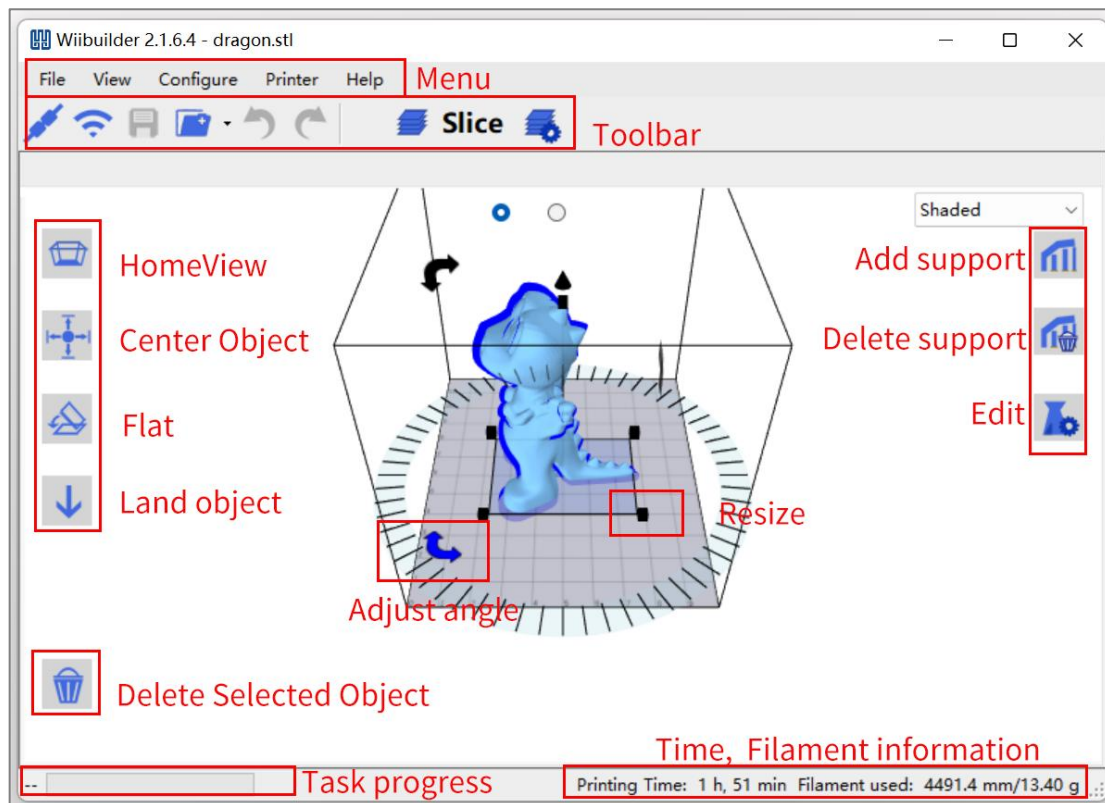
### 6.1.2.Installation on MacOS

OS: MacOS 10.13.6+

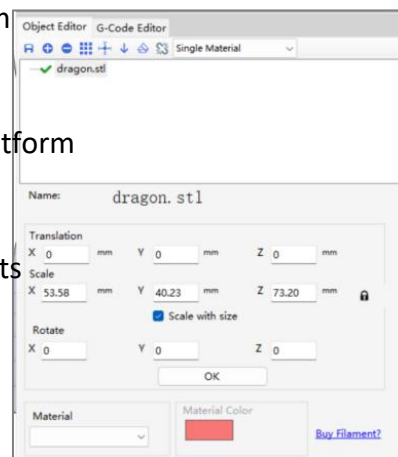
Decompress installer. Double-click package, drag Wiibuilder to Applications.



## 6.2.Interface Introduction

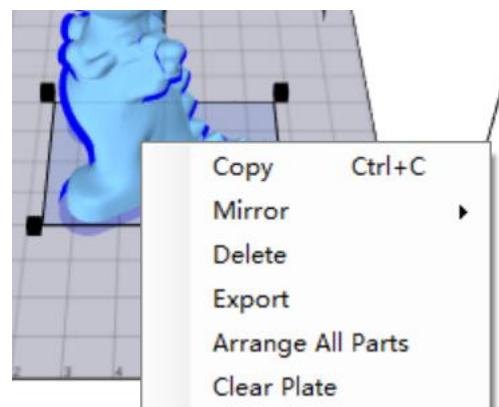


- Menu Bar: Access Wiibuilder menu
- Toolbar: USB/WiFi connect, save Gcode, load model, undo/redo, slice, settings
- Home View: Restore default view angle
- Center Object: Auto-adjust model XY to center on platform
- Flat: Auto-flatten tilted model on platform
- Land Object: Auto-adjust model Z to align bottom with platform
- Delete Selected: Remove current model
- Add/Delete Support: Manually add/remove model supports
- Edit: Open model and Gcode editor



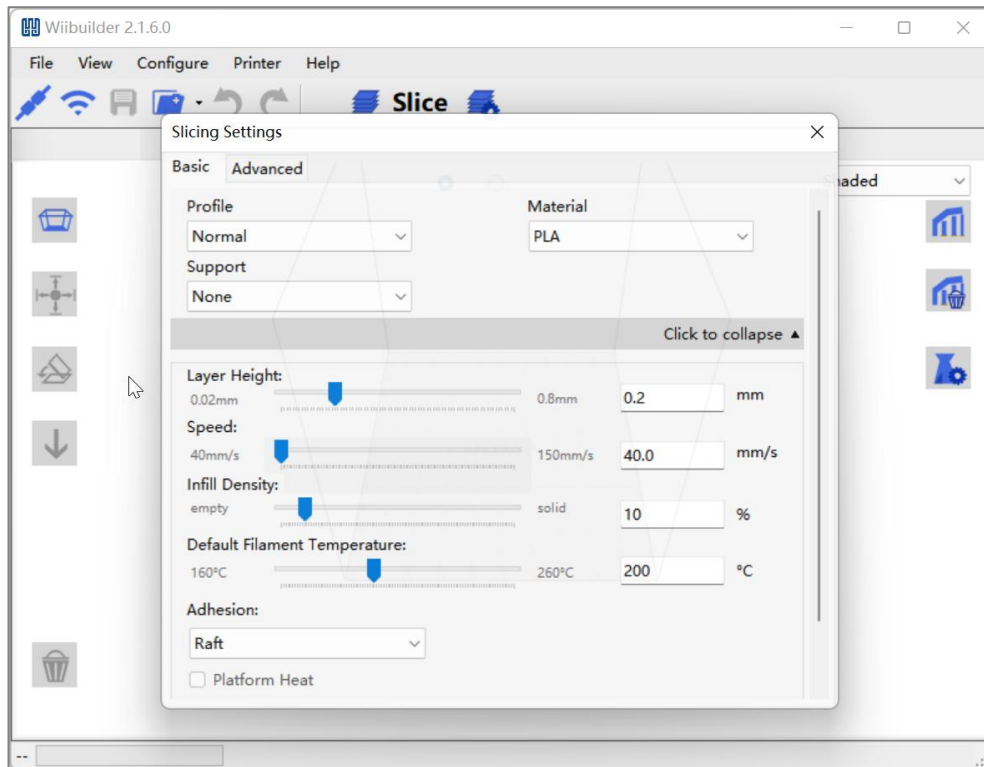
Right-click model for context menu:

- Copy model
- Mirror on X/Y/Z axis
- Delete model
- Export model to STL
- Arrange All Parts: Auto-adjust multi-model position and spacing



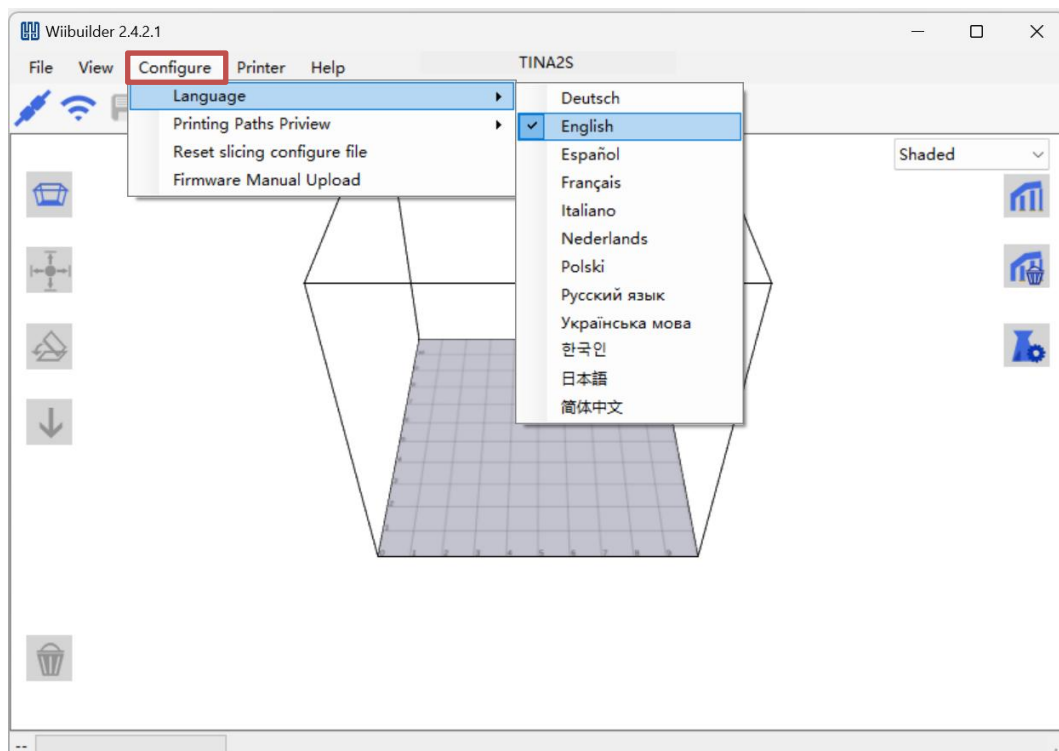
- Clear Plate: Remove all models

Slicing Settings:



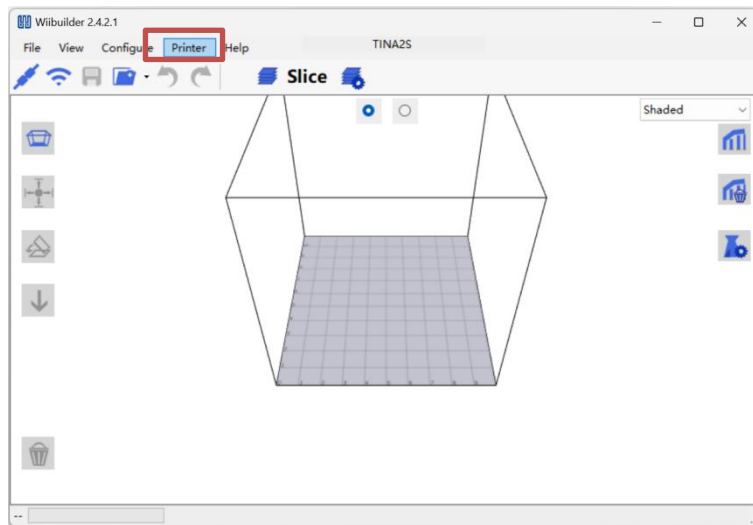
## 6.3.Select Language

Open Wiibuilder, click Configure > Language to select.

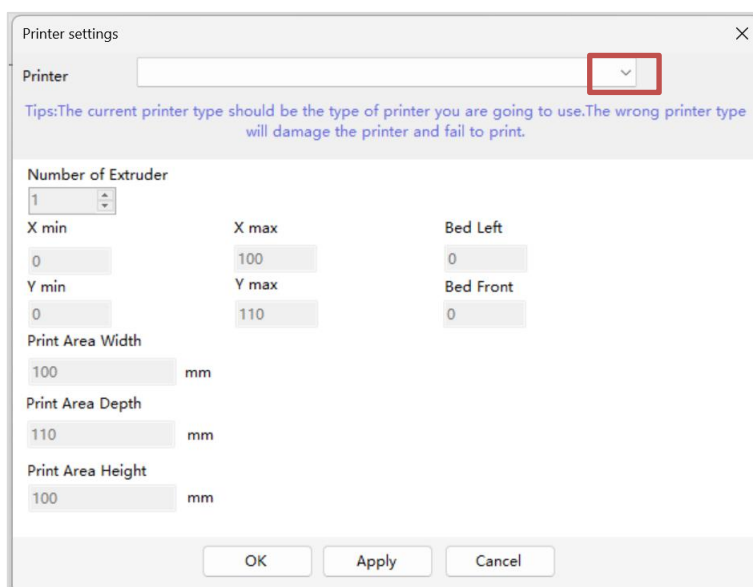


## 6.4.Select Printer

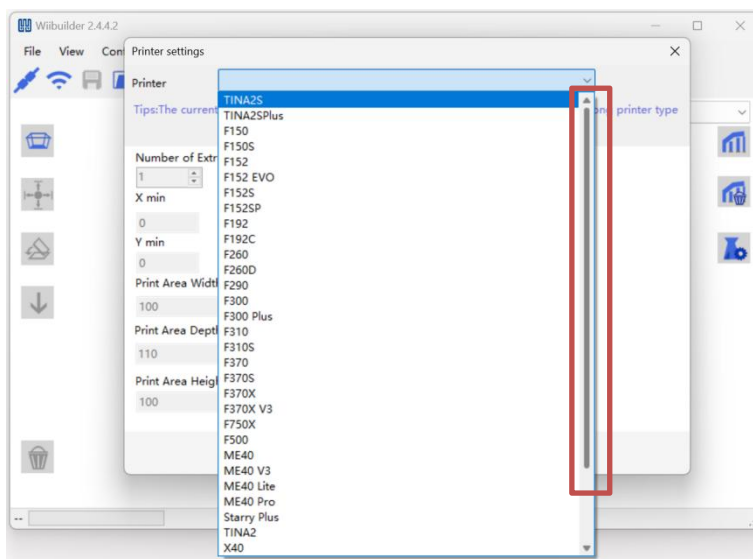
Click Printer to select model.



Click Printer.

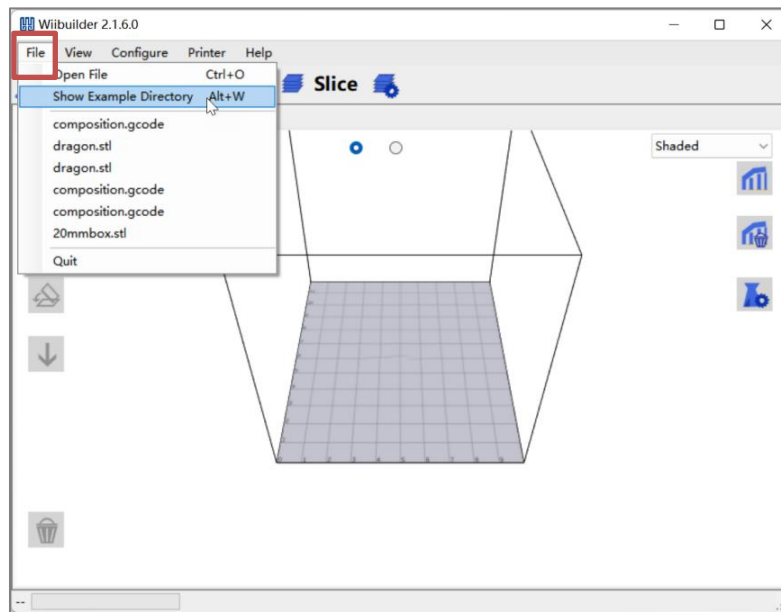


Scroll to find "TINA2S".Note: Not "TINA2", will fail if wrong.

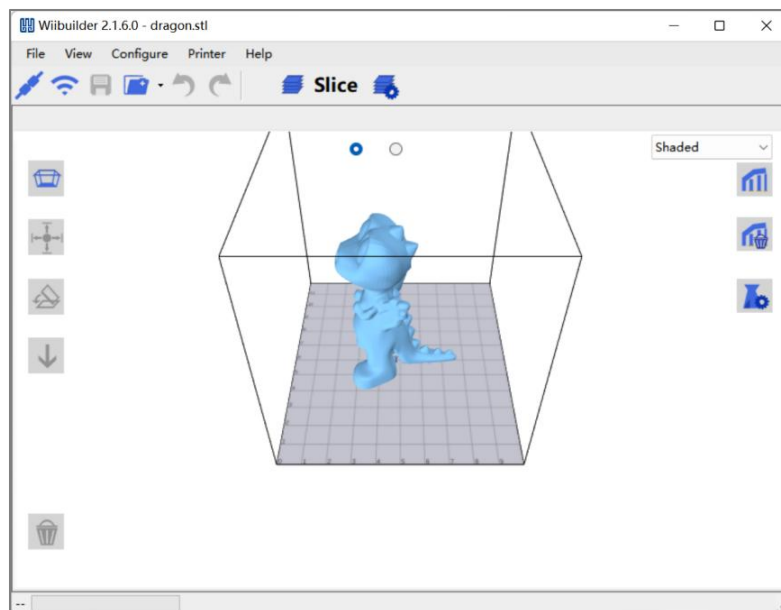


## 6.5.Add Model

Open Wiibuilder, click File to load model or drag model in.

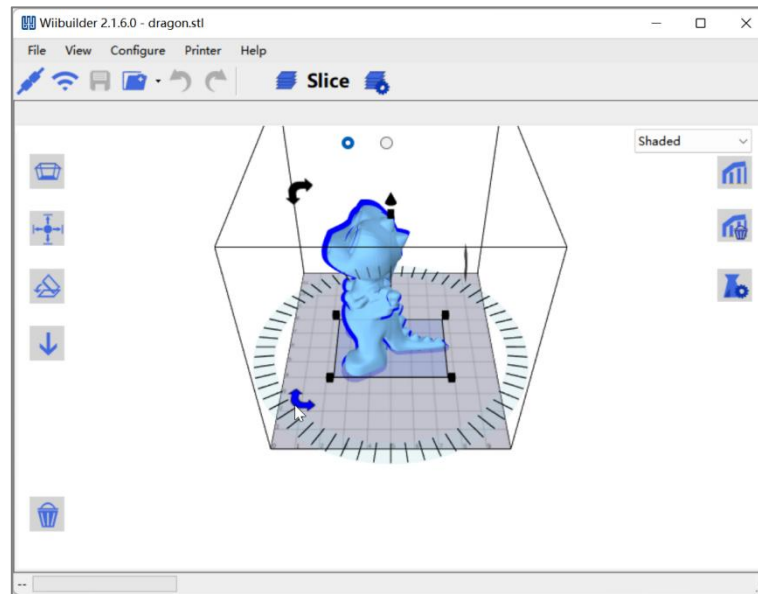


Five sample models in "Show Example Directory" for test printing.

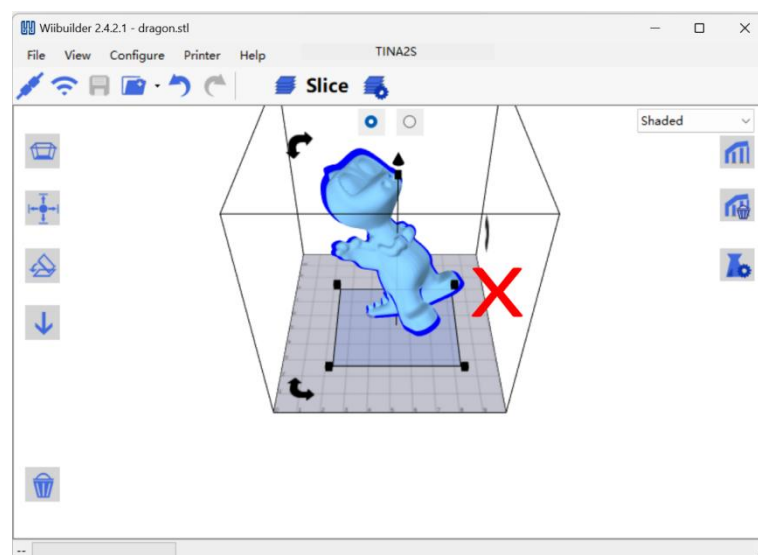
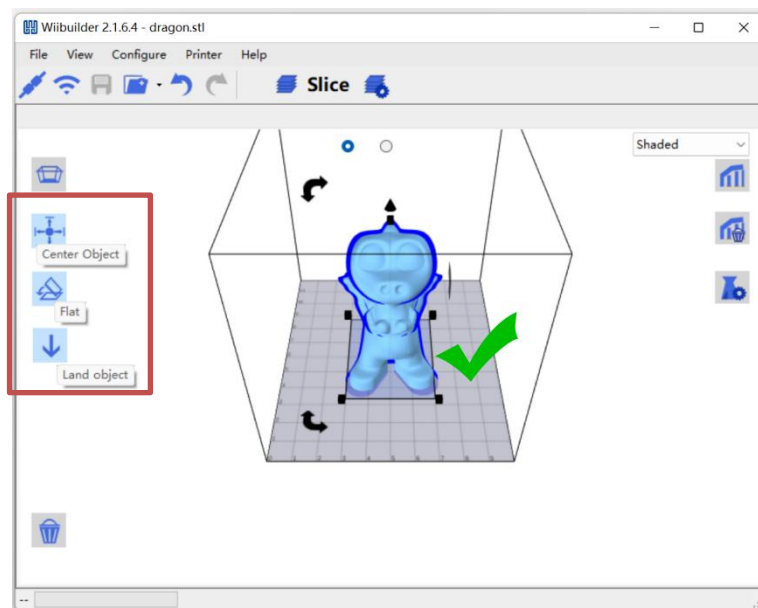


## 6.6.Adjust Model

Click model to adjust size, angle, position.

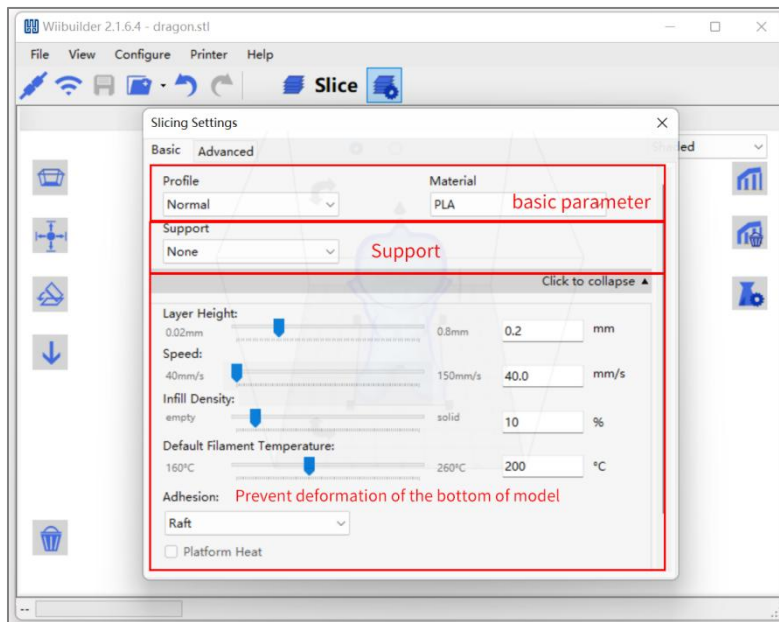


Model should be centered and properly placed on platform. Click Center Object, Flat, Land Object. If floating, print fails.

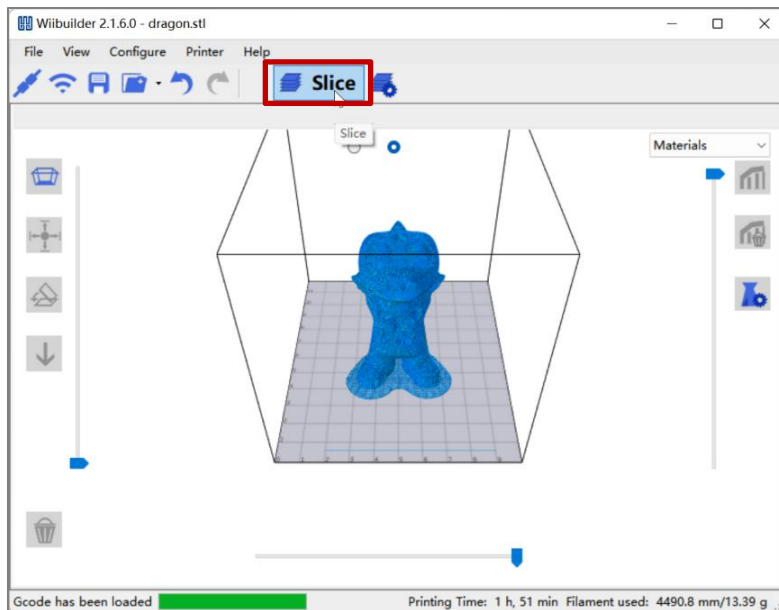


## 6.7. Basic Parameter Settings

Beginners use defaults without adjustment.



After setting parameters, click Slice to convert file.



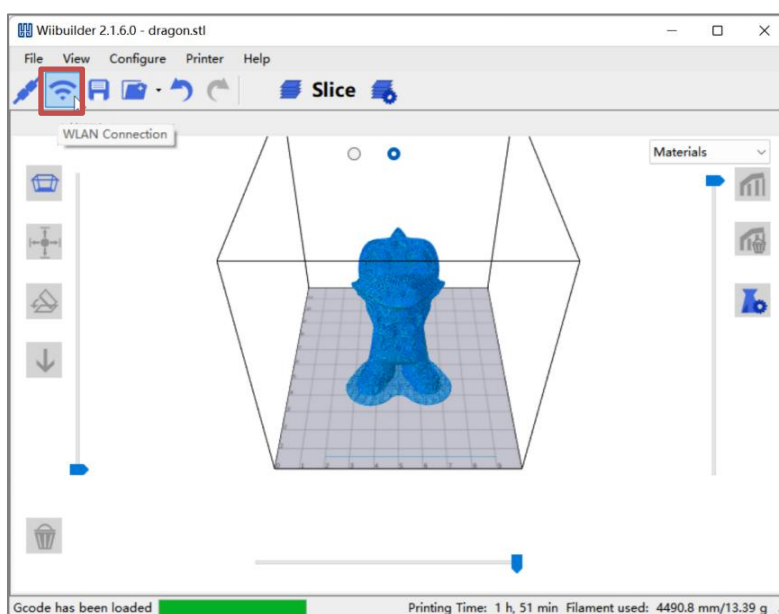
## 6.8.Send Files via Network

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

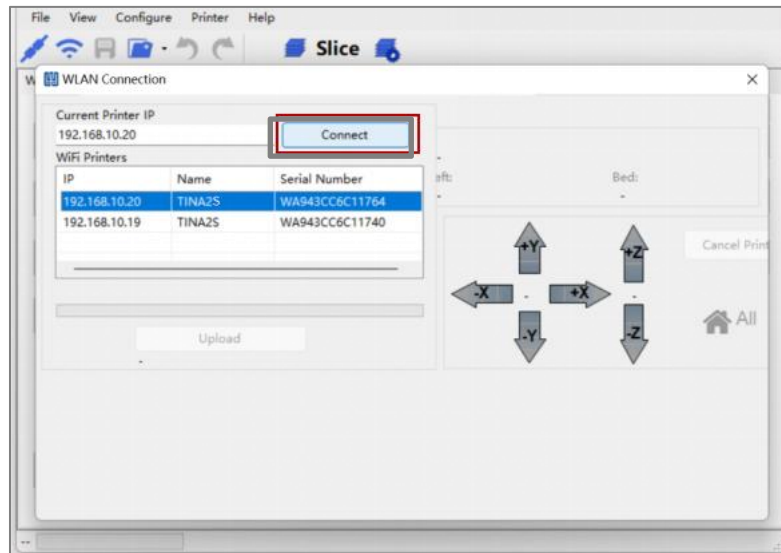
SELECT THE COMPUTER TO USE THE SAME NETWORK AS THE DEVICE. USING DIFFERENT NETWORKS CAN CAUSE TRANSFER FAILURES.



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

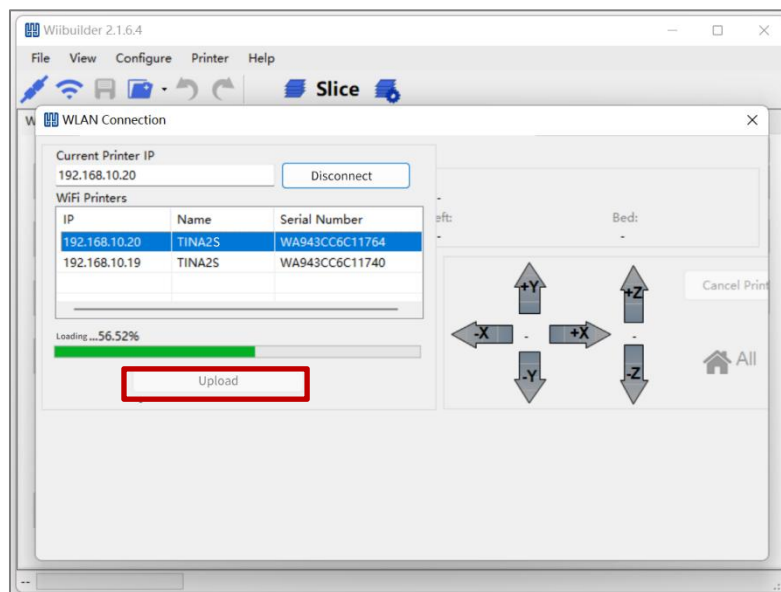


Click "WLAN Connection", the software will automatically search for the 3D printers in the local network and show them in the below list. If no 3D printer be found, you can also try to manually enter the IP address of the 3D printer to connect.



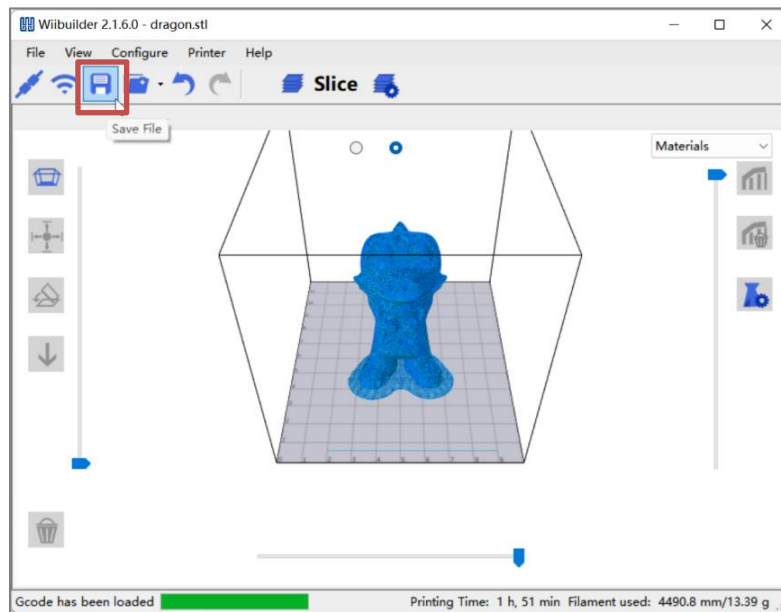
NOTE: IF YOU STILL CANNOT CONNECT TO THE 3D PRINTER, PLEASE CHECK WHETHER THE FIREWALL OF THE COMPUTER PROHIBITS THE SOFTWARE FROM NETWORKING, AND WHETHER THE COMPUTER AND THE 3D PRINTER ARE IN THE SAME LOCAL AREA NETWORK.

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

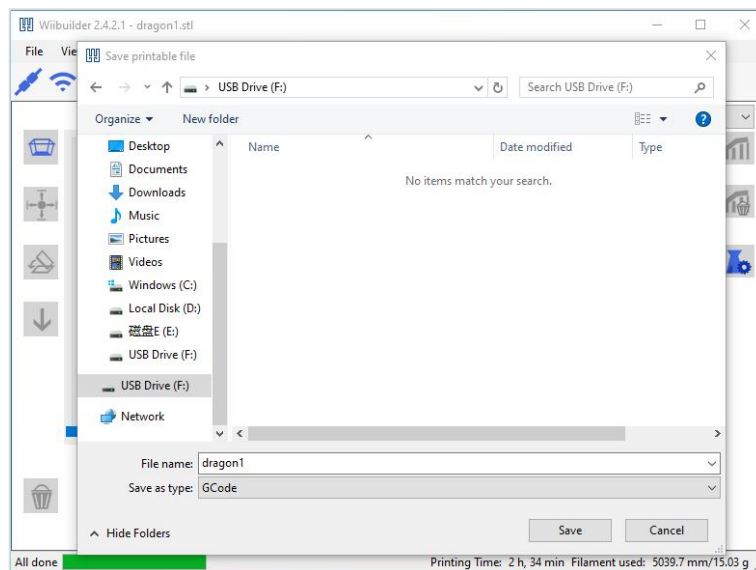


## 6.9.Send Files via TF Card

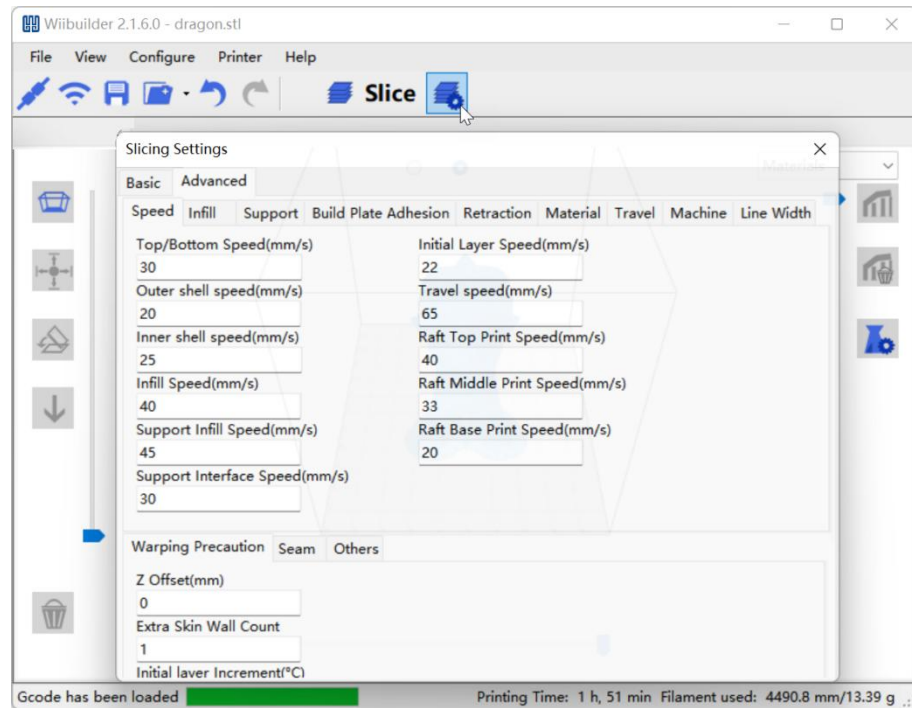
Save sliced model to TF card, insert card into printer.



Note: Save directly to TF root, not in folder.



## 6.10.Advanced Parameter Settings



### 6.10.1.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   |         |                      |            |                           |        |         |            |

Options:

- Top/Bottom Speed (mm/s): Top and bottom surface print speed
- Outer/Inner Shell Speed (mm/s): External and internal shell surface print speed
- Infill Speed (mm/s): Infill print speed
- Support Infill/Interface Speed (mm/s): Support infill and top/bottom surface print speed
- Initial Layer Speed (mm/s): First layer print speed
- Travel Speed (mm/s): Non-print movement speed

## 6.10.2.Infill Tab

Basic

Advanced

Speed

Infill

Support

Build Plate Adhesion

Retraction

Material

Travel

Machine

Line Width

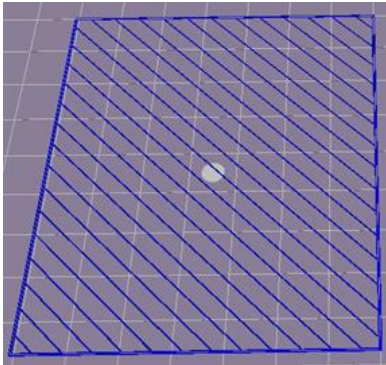
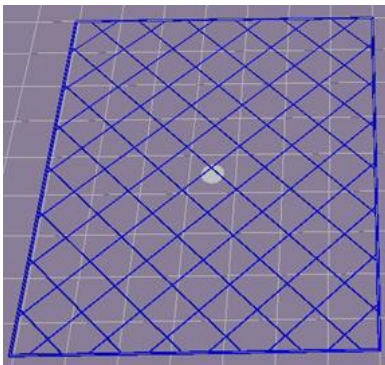
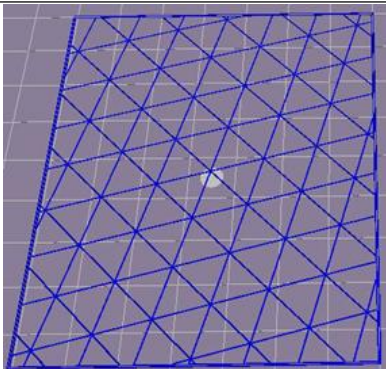
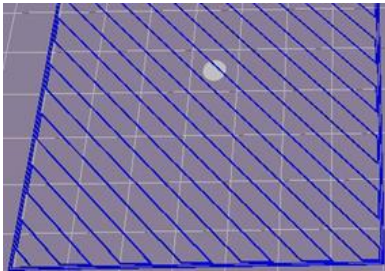
Infill Pattern:

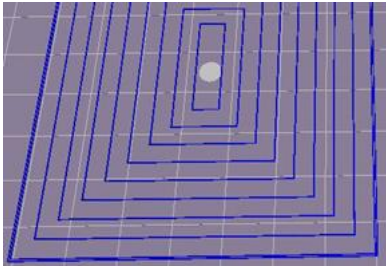
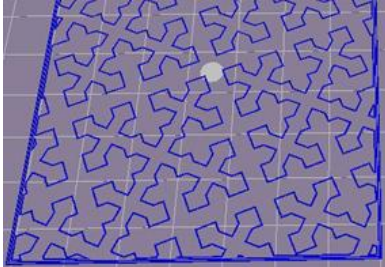
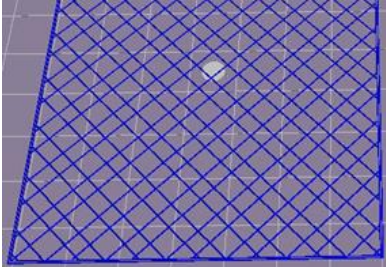
Grid

Infill Before Walls:

Outer Before Inner Walls:

- Infill Pattern: Select from Lines, Grid, Triangles, Zig Zag, Concentric, Cross, Octet. Patterns shown below.
- Infill Before Wall: Print infill then walls.
- Outer Before Inner Walls: Print outer then inner walls.
- Infill Patterns:

| Infill Patterns                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   |   |
| Lines                                                                               | Grid                                                                                 |
|  |  |
| Triangle                                                                            | Zig Zag                                                                              |

|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| <b>Concentric</b>                                                                 | <b>Cross</b>                                                                       |
|  |                                                                                    |
| <b>Octet</b>                                                                      |                                                                                    |

### 6.10.3.Support Tab

| Speed                          | Infill | Support | Build Plate Adhesion             | Retraction | Material                            | Travel | Machine | Line Width |
|--------------------------------|--------|---------|----------------------------------|------------|-------------------------------------|--------|---------|------------|
| Support Pattern:               |        | Zig Zag | Enable Support Interface         |            | <input checked="" type="checkbox"/> |        |         |            |
| 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                  |            | <input type="checkbox"/>            |        |         |            |

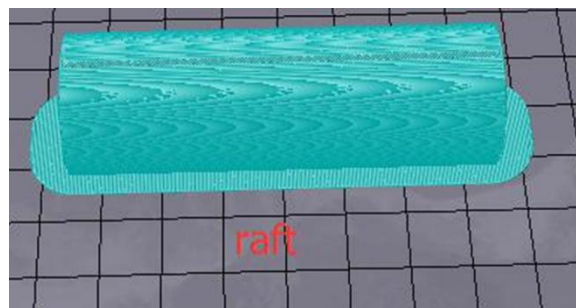
- Support Pattern: Select from Lines, Grid, Triangles, Zig Zag, Concentric. Same designs as infill patterns.
  - Lines easier to remove, for models needing more support
  - Grid for small models needing less support
  - Zig Zag stronger than Lines, better than Grid, for difficult to remove supports
- Overhang Angle: Angle between support and model surface. Larger = easier removal, smaller = better support. Default 60° .
- Support Infill Density (%): Higher density = stronger support.

- Support Top/Bottom Gap (mm): Distance from support top/bottom to model. Smaller = more effective but harder removal leaving.
- residue, larger = less effective but easier removal for smoother surface.
- Distance X/Y (mm): Horizontal distance from support to model, same effects as Top/Bottom Gap.
- Enable Support: Use supports.
- Support Top/Bottom: Top and bottom support layer thickness.
- Support Interface: Infill percentage inside supports.
- Support Interface Infill Pattern: Select from Lines, Grid, Triangles, Zig Zag, Concentric. Same designs as infill patterns.
- Connect Support: Join separate supports into one.

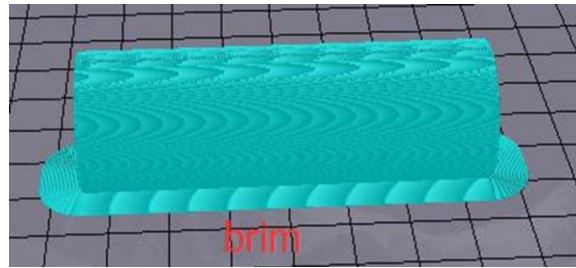
#### 6.10.4.Build Plate Adhesion Tab

| Speed                   | Infill | Support                           | Build Plate Adhesion | Retraction       | Material | Travel                          | Machine | Line Width |
|-------------------------|--------|-----------------------------------|----------------------|------------------|----------|---------------------------------|---------|------------|
| Raft Air Gap(mm)        |        | <input type="text" value="0.24"/> |                      | Brim line amount |          | <input type="text" value="20"/> |         |            |
| Raft Extra Margin(mm)   |        | <input type="text" value="5"/>    |                      | Skirt Line Count |          | <input type="text" value="1"/>  |         |            |
| Raft Base thickness(mm) |        | <input type="text" value="0.3"/>  |                      |                  |          |                                 |         |            |
| Initial Layer Z Overlap |        | <input type="text" value="0.09"/> |                      |                  |          |                                 |         |            |

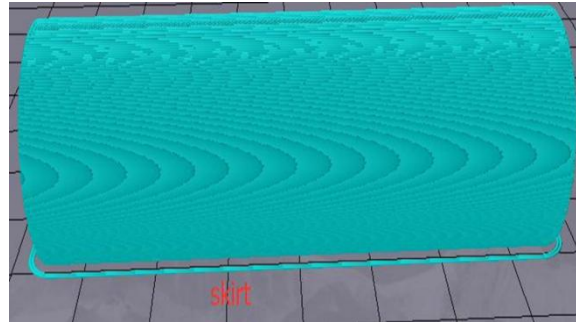
- Raft Air Gap (mm): Distance between raft and model, determines removal difficulty.



- Raft Extra Margin (mm): Distance from raft edge to model surface.
- Raft Base Thickness (mm): Raft thickness.
- Initial Layer Z Overlap: Overlap between model's first and second layers.
- Brim Line Amount: Number of rings added to model edge contacting platform.



- Skirt Line Count: Number of anti-overflow lines at model end contacting platform.



### 6.10.5.Retraction Tab

| Speed                          | Infill | Support | Build Plate Adhesion | Retraction                          | Material             | Travel | Machine | Line Width |                                     |
|--------------------------------|--------|---------|----------------------|-------------------------------------|----------------------|--------|---------|------------|-------------------------------------|
| Horizontal Travel Retraction   |        |         |                      | <input checked="" type="checkbox"/> | Z Hop When Retracted |        |         |            | <input checked="" type="checkbox"/> |
| Retract at Layer Change        |        |         |                      | <input type="checkbox"/>            | Z Hop Height(mm):    |        |         |            | 0                                   |
| Retraction speed(mm/s):        |        |         |                      | 28                                  |                      |        |         |            |                                     |
| Retraction distance(mm):       |        |         |                      | 1.2                                 |                      |        |         |            |                                     |
| Retraction Minimum Travel(mm): |        |         |                      | 0.8                                 |                      |        |         |            |                                     |

- Horizontal Travel Retraction: Enable filament retract during non-print horizontal moves
- Retract at Layer Change: Retract filament between layers
- Retraction Speed (mm/s): Filament retract speed
- Retraction Distance (mm): Filament retract distance inside nozzle
- Retraction Minimum Travel (mm): Minimum pre-print nozzle move distance before retracting
- Z Hop When Retracted: Enable nozzle lift after retract
- Z Hop Height (mm): Nozzle lift distance after retract

### 6.10.6.Material Tab

|                        |        |                                   |                      |            |          |        |         |            |
|------------------------|--------|-----------------------------------|----------------------|------------|----------|--------|---------|------------|
| Speed                  | Infill | Support                           | Build Plate Adhesion | Retraction | Material | Travel | Machine | Line Width |
| Filament flow(%):      |        | <input type="text" value="95"/>   |                      |            |          |        |         |            |
| Filament Diameter(mm): |        | <input type="text" value="1.75"/> |                      |            |          |        |         |            |

- Filament Flow (%): Molten filament flow rate based on material. Generally 90 for PLA/PLA Pro, 100 for ABS.
- Filament Diameter (mm): Diameter of filament used. Printer only supports 1.75mm.

### 6.10.7.Travel Tab

|                                  |          |         |                      |            |          |        |         |            |
|----------------------------------|----------|---------|----------------------|------------|----------|--------|---------|------------|
| Basic                            | Advanced |         |                      |            |          |        |         |            |
| Speed                            | Infill   | Support | Build Plate Adhesion | Retraction | Material | Travel | Machine | Line Width |
| Combing Mode                     |          |         |                      |            |          |        |         |            |
| <input type="text" value="Off"/> |          |         |                      |            |          |        |         |            |

- Combing Mode: Nozzle movement when not printing.
  - Off: Shortest move from previous extrusion to new start
  - All: Move along already extruded paths
  - No Skin: Avoid outer layers moving to new start, improves quality

### 6.10.8.Machine Tab

|                                  |          |         |                      |            |          |        |         |            |
|----------------------------------|----------|---------|----------------------|------------|----------|--------|---------|------------|
| Basic                            | Advanced |         |                      |            |          |        |         |            |
| Speed                            | Infill   | Support | Build Plate Adhesion | Retraction | Material | Travel | Machine | Line Width |
| Right Nozzle Diameter(mm)        |          |         |                      |            |          |        |         |            |
| <input type="text" value="0.4"/> |          |         |                      |            |          |        |         |            |

- Right Nozzle Diameter (mm): Diameter of right extruder nozzle. Printer has single right extruder with 0.4mm nozzle.

## 6.10.9.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): Outermost wall line width. Lower for finer detail.
- Inner Wall(s) Line Width (mm): Single wall line width for all but outermost
- Top/Bottom Line Width (mm): Top and bottom line width
- Infill Line Width (mm): Single infill line width
- Support Line Width (mm): Single support line width
- Skirt/Brim Line Width (mm): Single skirt or brim line width
- Raft Top Line Width (mm): Line width in raft top surface. Thin for smooth top.
- Raft Middle Line Width (mm): Line width in middle raft layers. Thicker second layer for build plate adhesion.
- Raft Base Line Width (mm): Raft base layer line width. Thick for build plate adhesion.
- Prime Tower Line Width (mm): Prime tower extrusion width

## 6.10.10.Seam Tab

Note: Z Seam is where printer finishes outer layer, may cause blob/zit when changing Z height. Aligned seams make noticeable line (Z Seam) from oozing at start/stop. Options minimize this.

- Z Seam Type: Determines Z Seam location
  - Shortest: Most time-efficient start/stop
  - User Specified: Set X/Y start/stop
  - Random: Random start/stop prevents column buildup
  - Sharpest Corner: Start/stop at sharpest model corner
- Z Seam X/Y (mm): X/Y location of Z Seam. Only for User Specified type.
- Hiding Seam Preference: For Sharpest Corner type, puts seam inside or outside corner

- Z Seam Relative: Relative to object center or absolute on build plate. Only for User Specified type.

Seam Others

Z Seam Type  
Shortest

Z Seam X(mm)  
100

Z Seam Y(mm)  
400

Hiding Seam Preference  
Hide Seam

Z Seam Relative  
☐

### 6.10.11.Others Tab

Seam Others

Skin Layers Thickness(mm)  
0.8

Wall Line Count  
2

Initial Layer Horizontal Expansion(mm)  
0

Extra Skin Wall Count  
0

Hole Horizontal Expansion(mm)  
0

Outer Wall Inset(mm)  
0.08

Enable Print Cooling

Enable Draft Shield

- Skin Layers Thickness (mm): Top and bottom skin layer thickness
- Horizontal Expansion (mm): Fine-tune part size to offset cooling shrinkage for tighter tolerances
- Skin Alternate Rotation: Top/bottom layers change 90° each layer. This adds 45° rotation every 2 layers.

Normal top/bottom layer directions:



Layer 3 with Skin Alternate Rotation enabled:



- Enable Print Cooling: Direct cooling air at printed part
- Enable Draft Shield: Print wall around model to block external airflow. Used when Print Cooling off for longer cooling materials like ABS.
- Wall Line Count: Number of walls to print

# 7.CURA

## 7.1.Installation

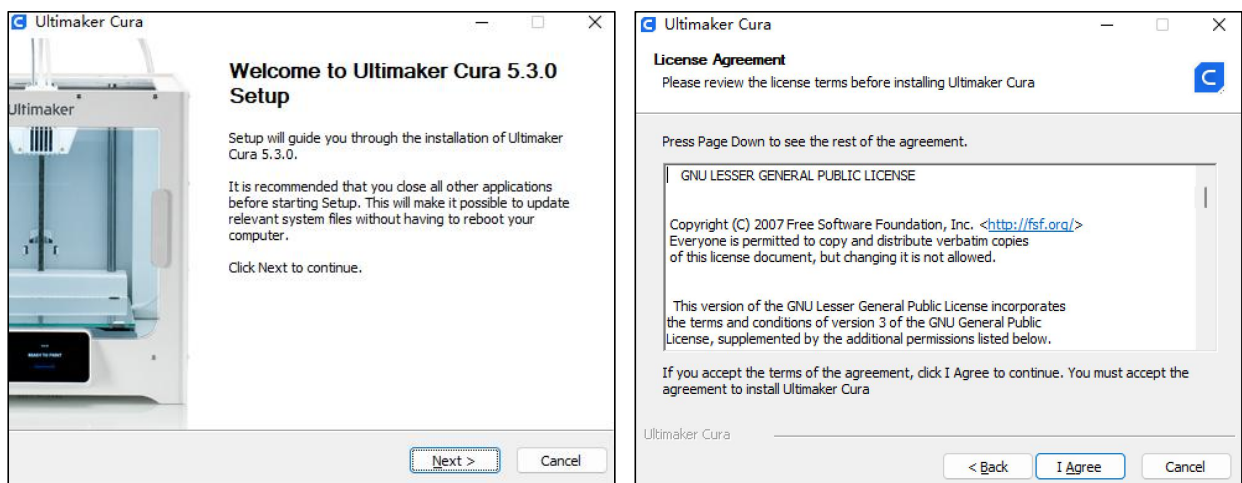
Another good slicer for Tina2S. Models sliced in Cura can't preview File Info screen. Custom Cura installer on microSD for Windows and Mac.

OS: Windows 10+ / MacOS 11.7+

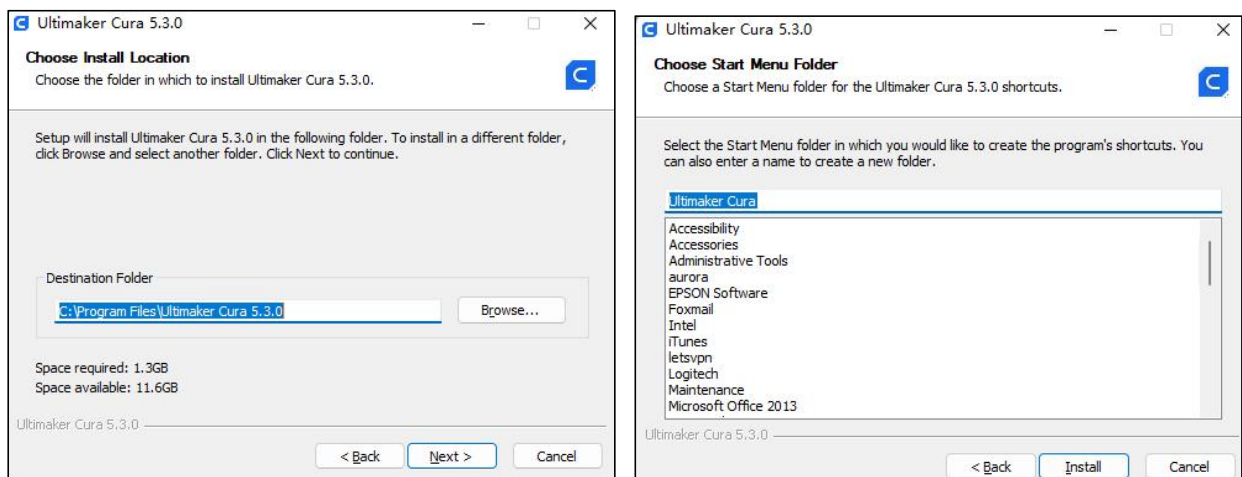
### 7.1.1.Installation on Windows

Double-click exe on microSD, then:

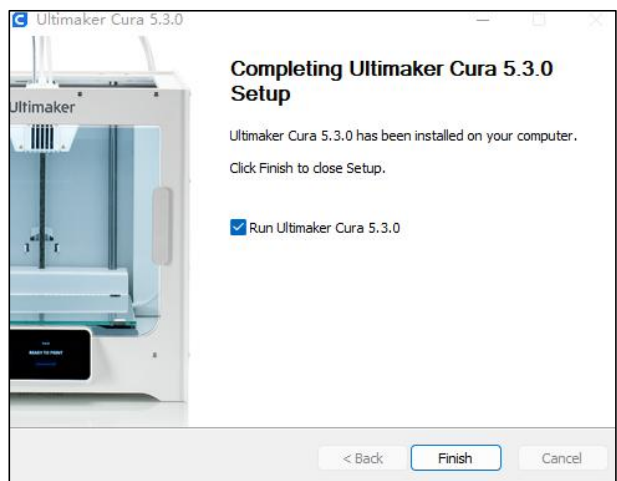
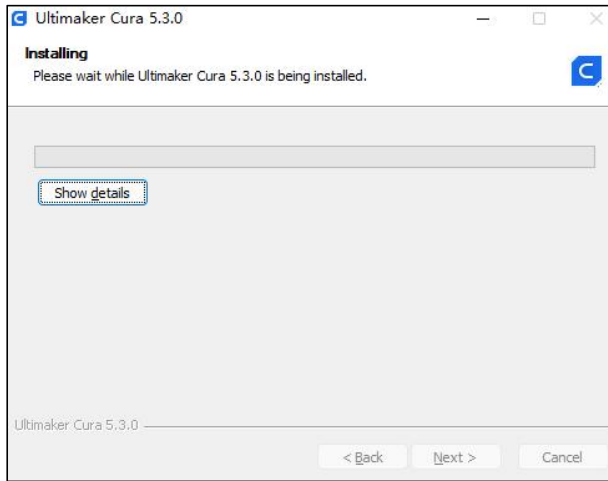
Welcome dialog > Next > I Agree



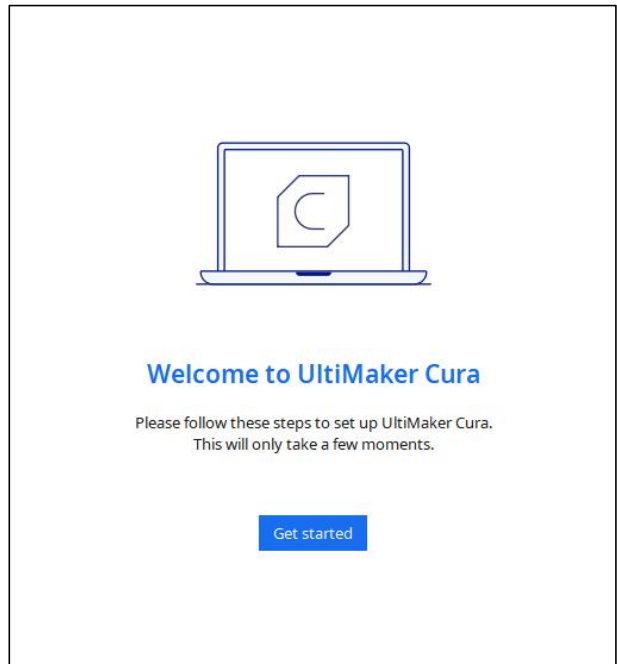
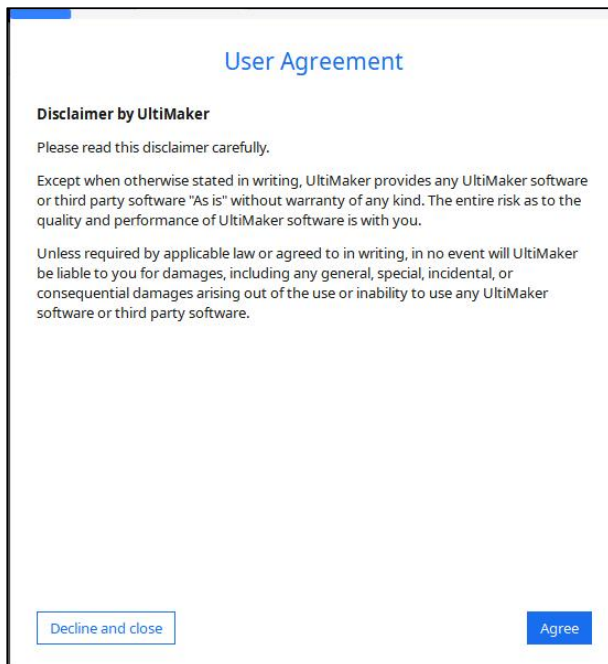
Choose install directory > Next



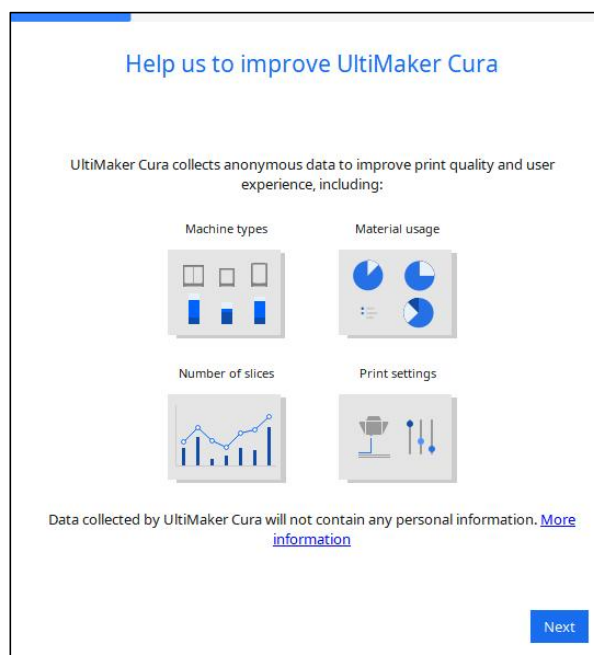
Select file associations > Install. Approve driver install if prompted. Check Run Ultimaker Cura > Finish.



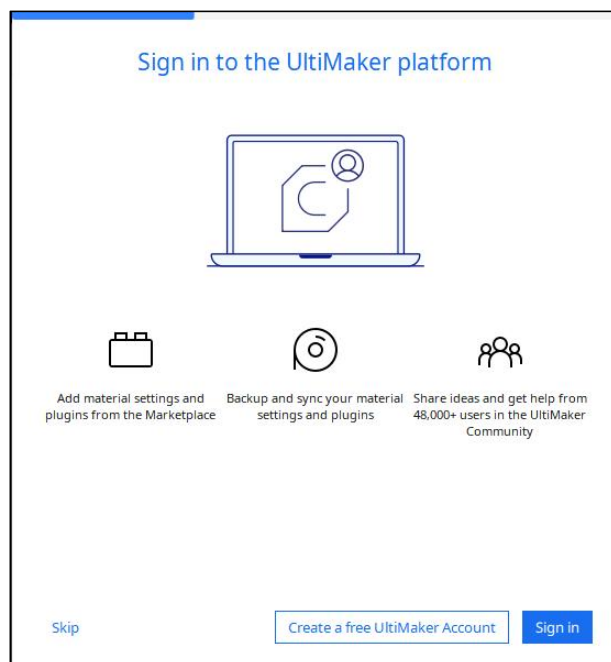
Welcome dialog > Get Started. User Agreement > Agree. If reinstalling, skip to step 6.



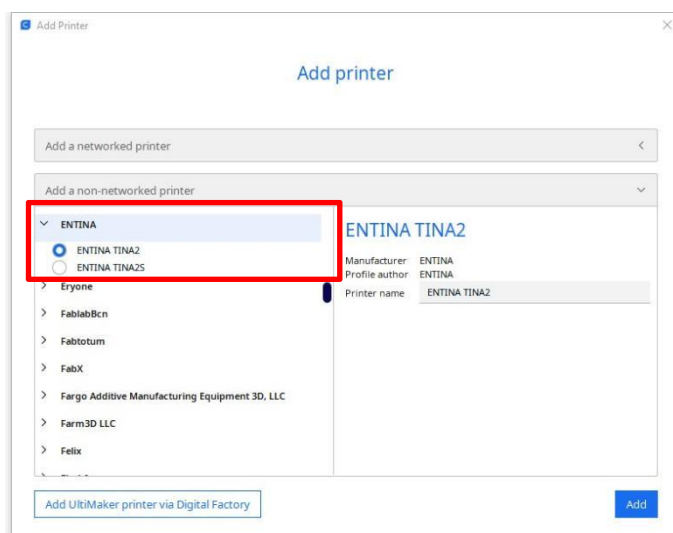
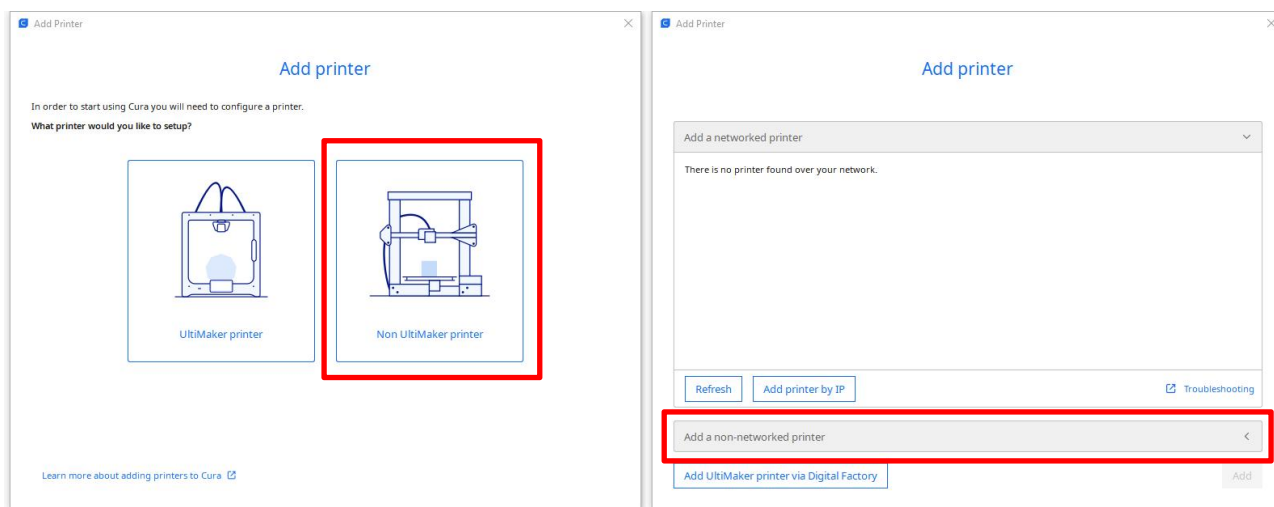
Next on next two dialogs



## Ultimaker Cloud dialog for account creation/login > Skip



Add networked printer > Entina > TINA2 > Next. If First Run skipped, Settings > Printer > Add > Tina2 > Add, skip to step 8.



Main screen loads with Tina2 defaults. To customize, click pencil > Custom. Infill Density, Support, Platform Adhesion based on model needs.

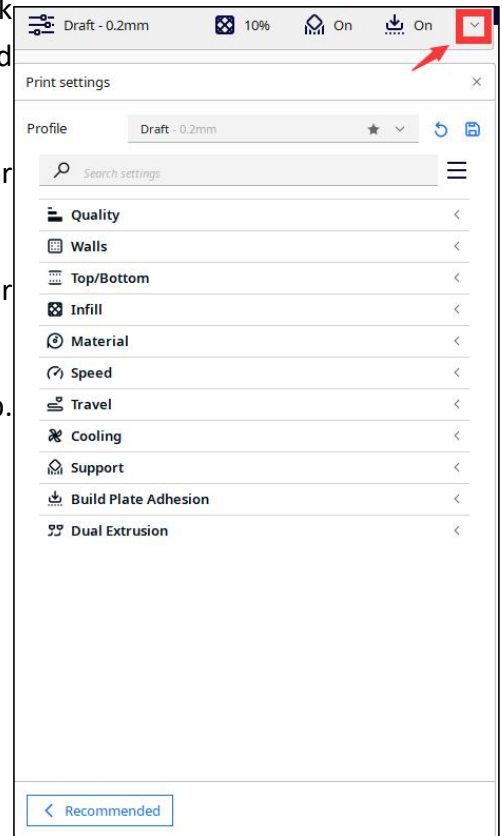
Infill Density: Overall strength. Low for decorative, high for functional parts.

Support: None for no overhang (cube), Touching Buildplate for plate overhang only, Everywhere for complex overhang.

Platform Adhesion: Brim usually sufficient and easier cleanup. Raft builds sacrificial base layer.

Experiment for best results.

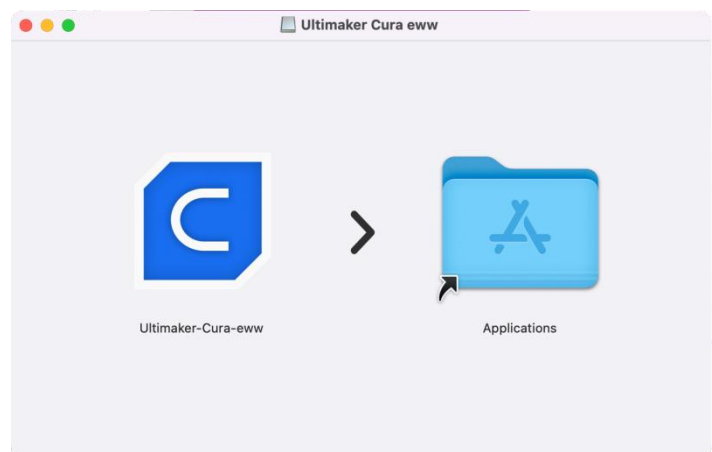
Install complete! See Cura docs for operation details.



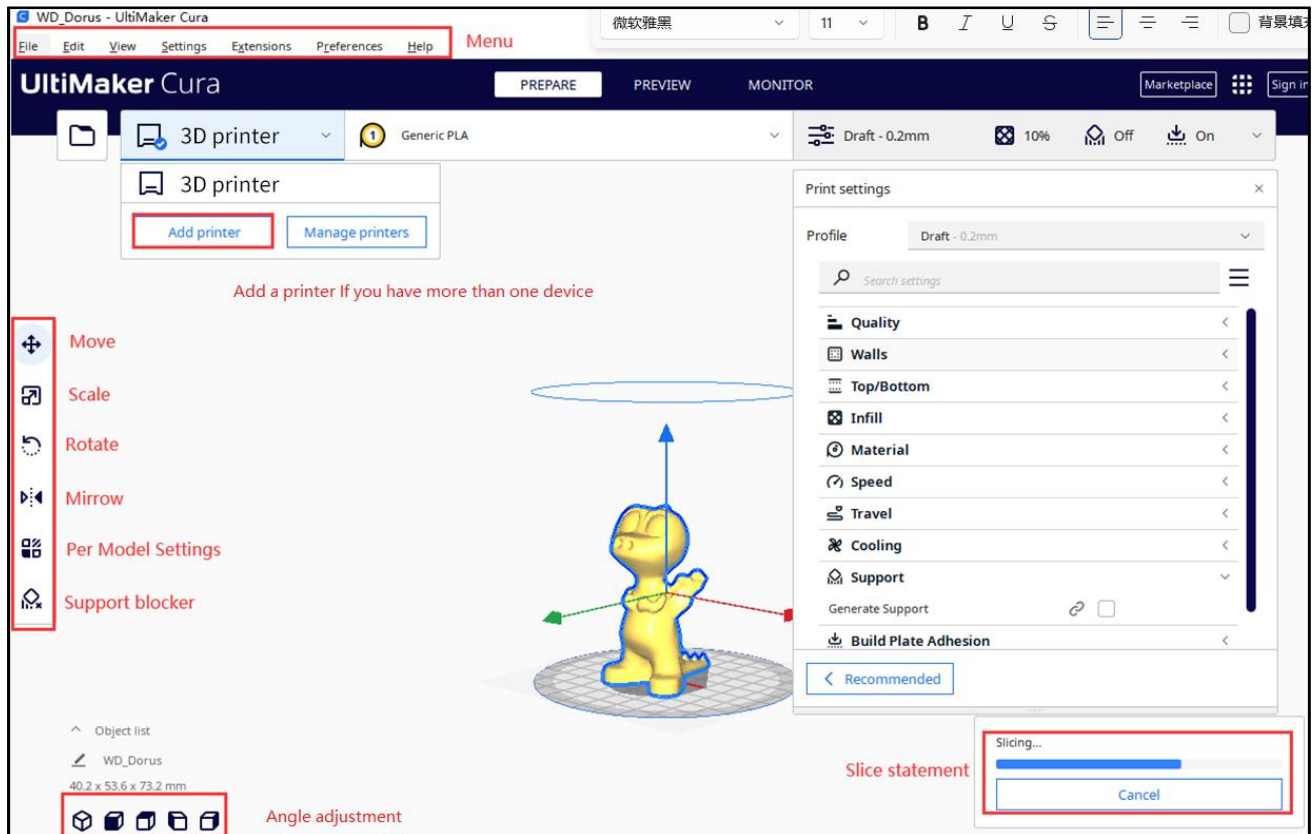
## 7.1.2.Installation on MacOS

OS: MacOS 11.7+

Decompress installer. Double-click package, drag Cura to Applications.



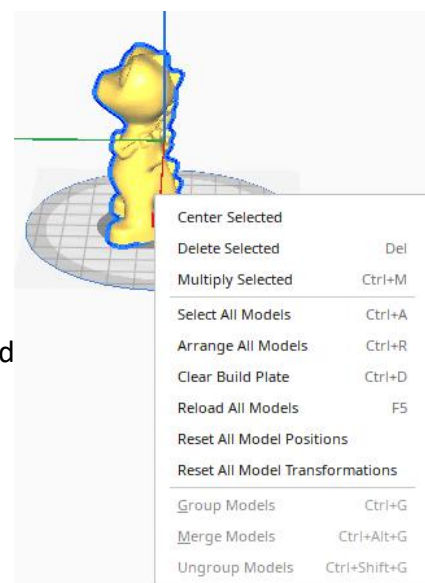
## 7.2.Interface Introduction



- Menu Bar: Access Cura menu
- Move, Scale, Rotate, Mirror: Adjust model size and position
- Support Blocker: Manually add supports

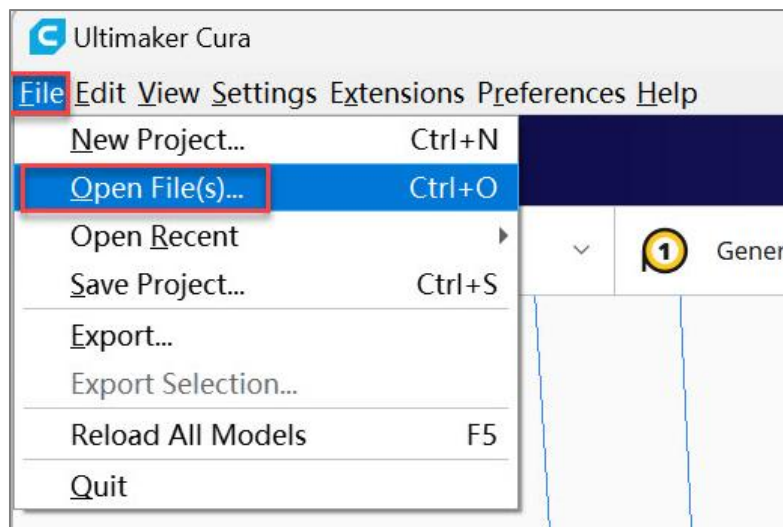
Right-click model for context menu:

- Center Selected: Auto-center model on platform
- Delete Selected: Remove model
- Multiply Selected: Duplicate multi-part model
- Arrange All Models: Auto-adjust multiple model position and spacing
- Clear Build Plate: Remove all models



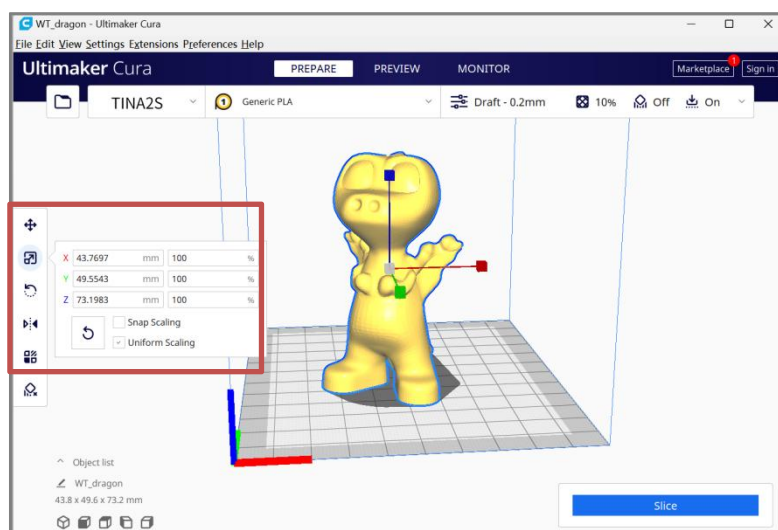
## 7.3.Add Model

Open Cura, click File to load model or drag model in.



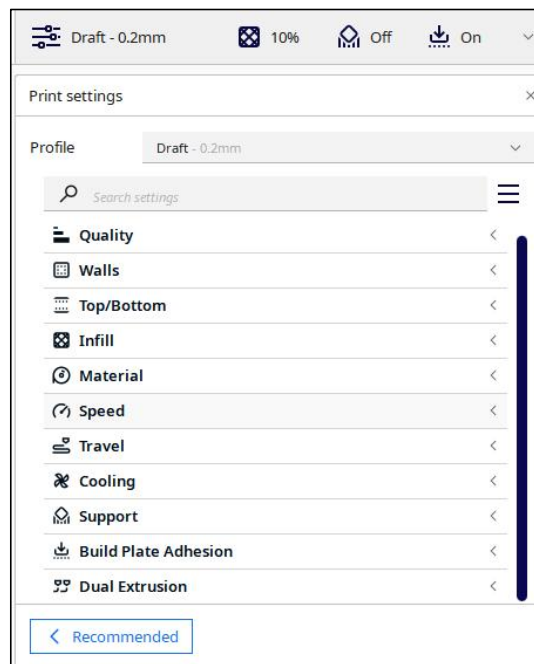
## 7.4.Adjust Model

Click model to adjust size, angle, position.

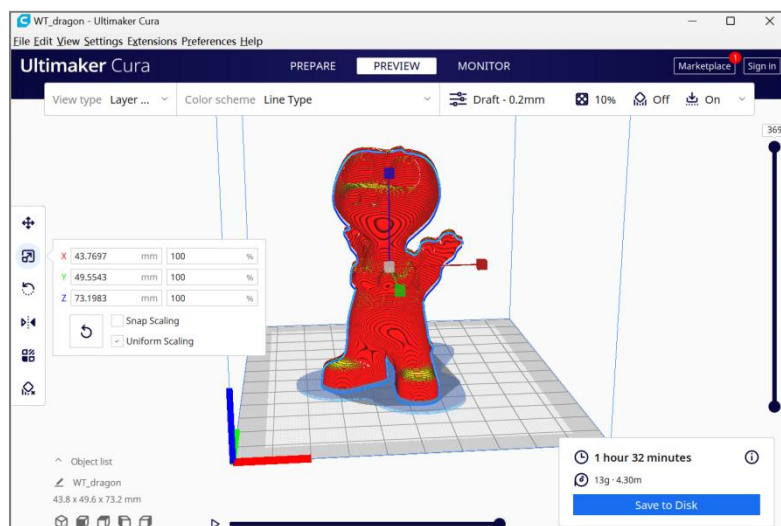
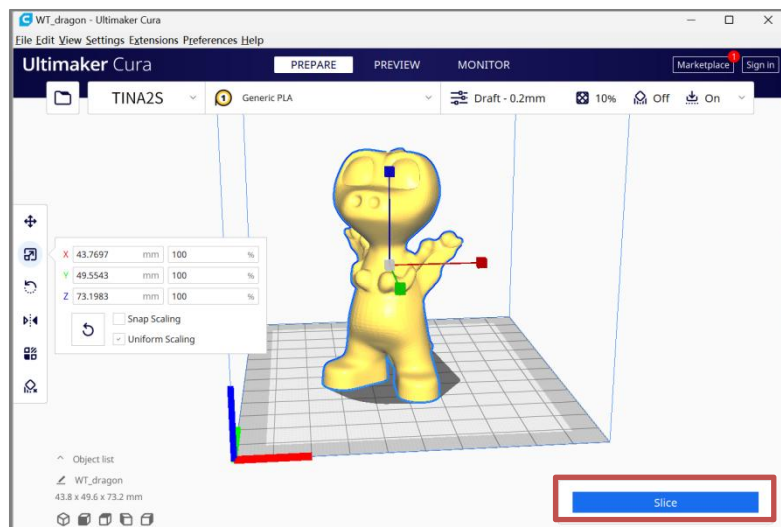


## 7.5.Slice

Beginners use defaults without adjustment.

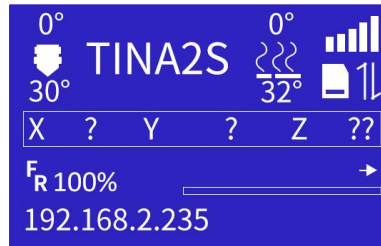


After setting parameters, click Slice to process.

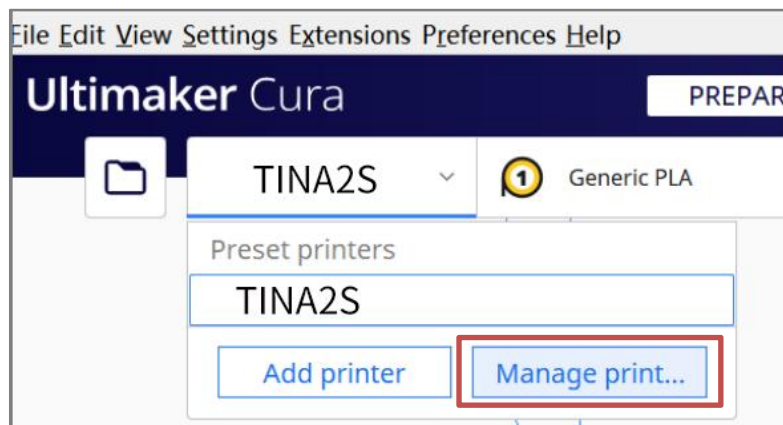


## 7.6.Send files via Network

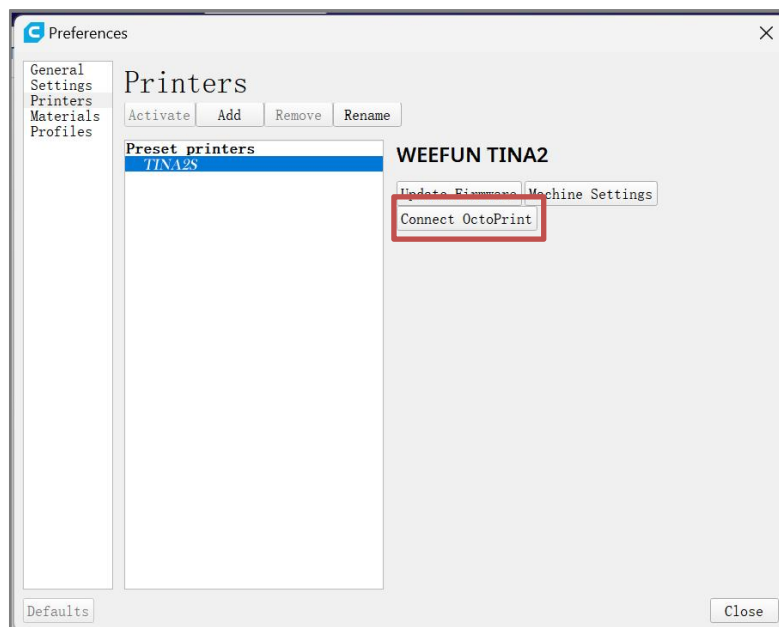
Before sending the print file through the network, make sure that the 3D printer is connected to the network, and the IP address is displayed. Please refer to: "**Print by app**".



Click “manage printers”



Choose “Connect Octoprint”



Enter the IP address and click **ok** to connect

**Connect OctoPrint** 3.7.3

Connect to OctoPrint

Select your OctoPrint instance from the list below.

**Add** Edit Remove Refresh

☒ Automatically discover local OctoPrint instances

**Manually added OctoPrint instance**

Instance Name

IP Address or Hostname

Port Number 80

Path /

In order to use HTTPS or a HTTP username and password, you need to configure a reverse proxy or another service.

Use HTTPS ☐

HTTP username

HTTP password

Cancel Ok

**Manually added OctoPrint instance**

Instance Name

IP Address or Hostname 192.168.2.235

Port Number 80

Path /

In order to use HTTPS or a HTTP username and password, you need to configure a reverse proxy or another service.

Use HTTPS ☐

HTTP username

HTTP password

Cancel **Ok**

**Connect OctoPrint** 3.7.3

Connect to OctoPrint

Select your OctoPrint instance from the list below.

**Add** Edit Remove Refresh

192.168.10.131 192.168.2.235

Address 192.168.2.235:80

Version 1.2.4

API Key

Username Anonymous user

Please enter the API key to access OctoPrint. You can get the API key through the OctoPrint web page.

☒ Start print job after uploading

☒ Select print job after uploading

☐ Connect to printer before sending print job

☐ Store G-code on the SD card of the printer

☐ Confirm print job options before sending

☐ Show webcam image

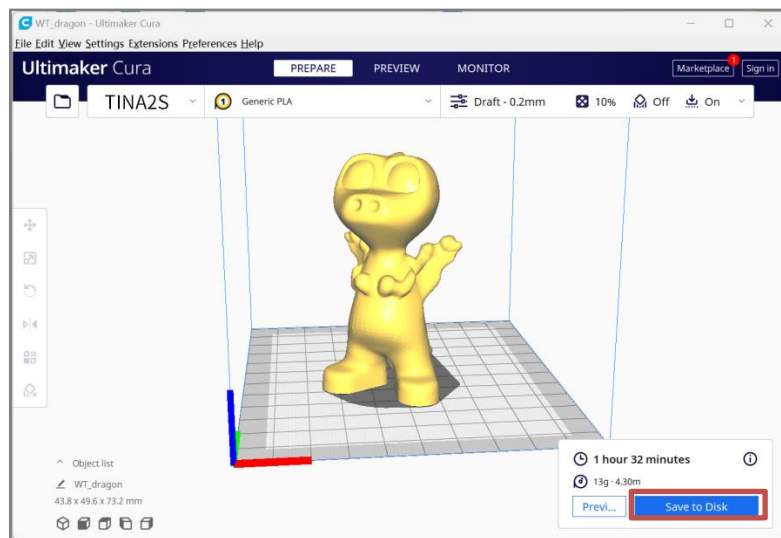
Open in browser... **Connect**

☒ Automatically discover local OctoPrint instances

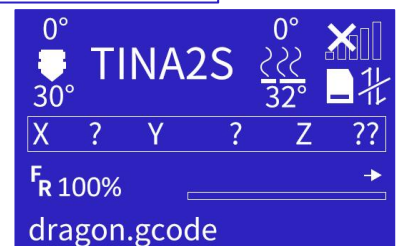
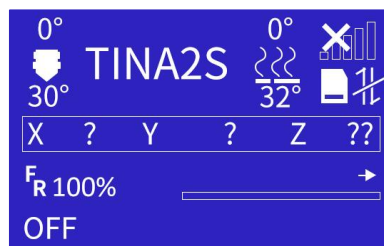
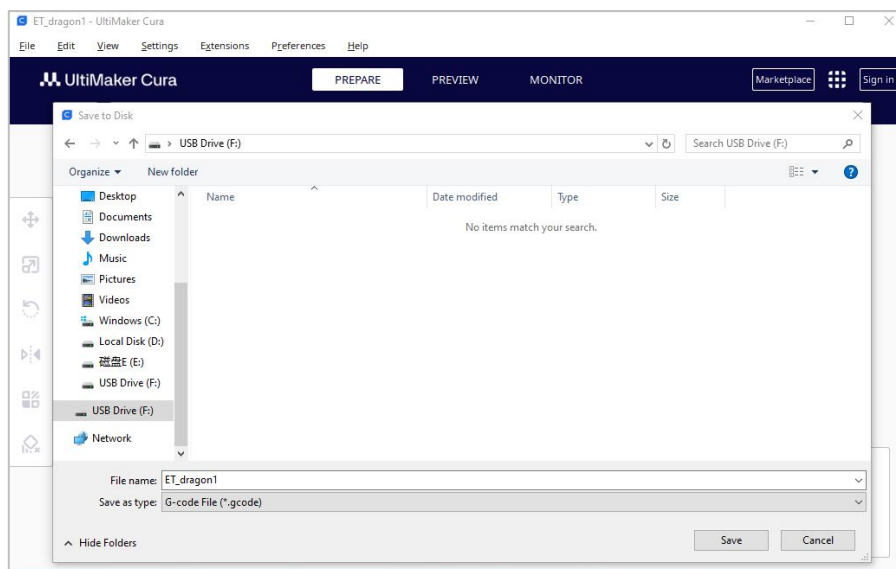
Some versions of cura need to fill in the **API key** : 123

## 7.7.Send Files via TF card

Save sliced model to TF card, insert into printer.



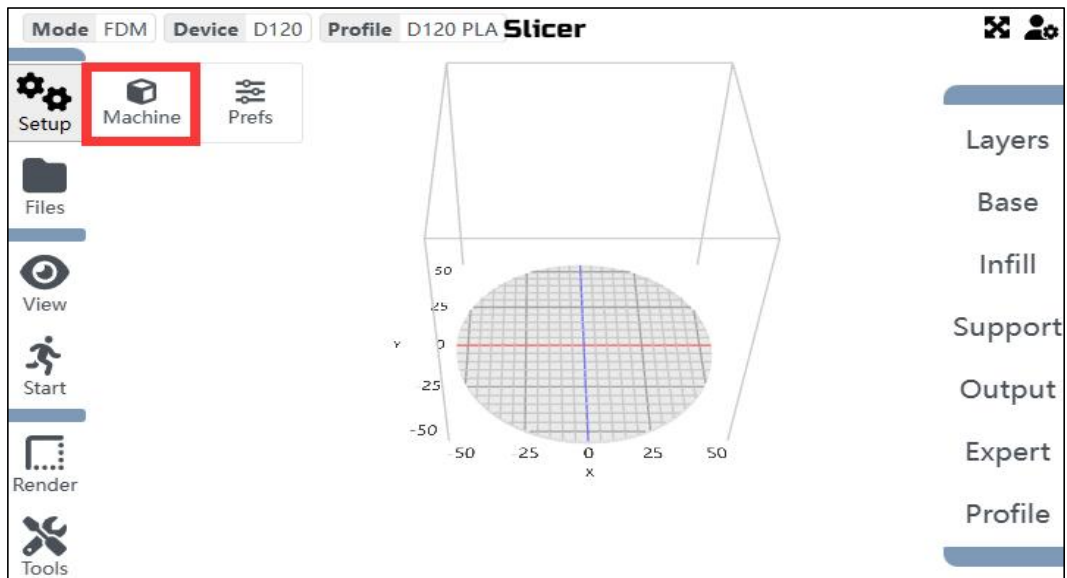
Note: Save directly to TF root, not in folder.



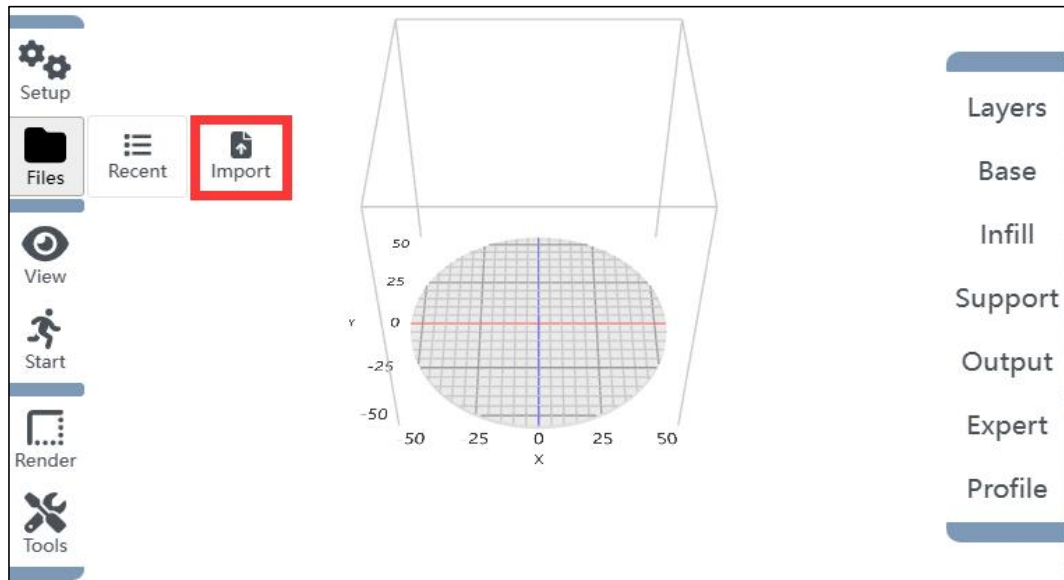
## 8.KIRI

Go to <https://slice.wiibuilder.net/kiri/> for Chrome OS or iPad.

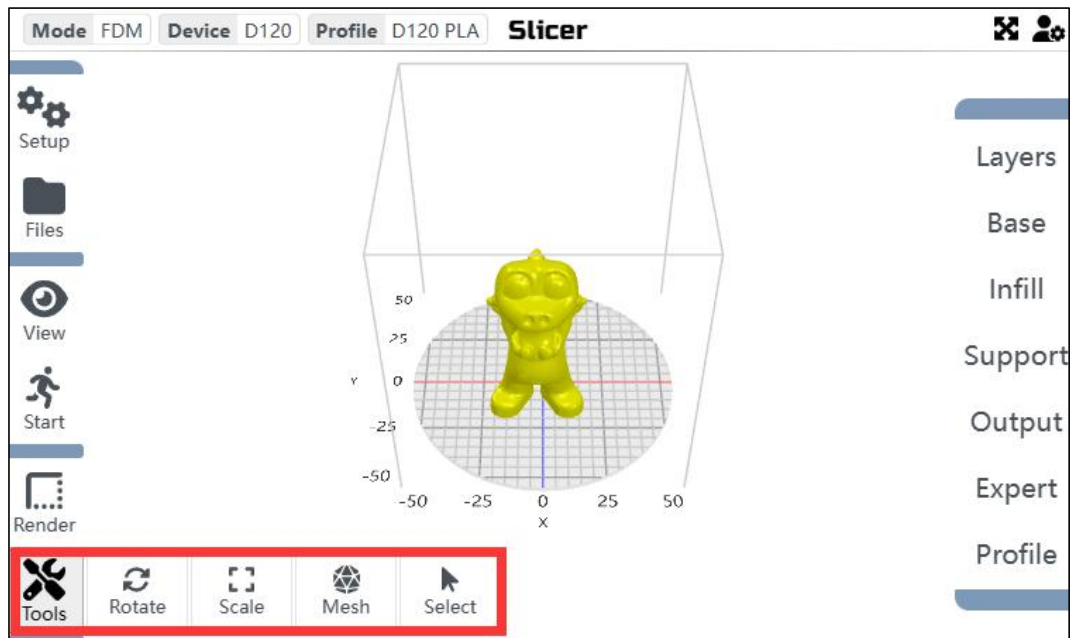
Setup > Machine to select printer model



Files > Import to load model



Tools to adjust model size and position.



Slice > Export to TF card for printing.

