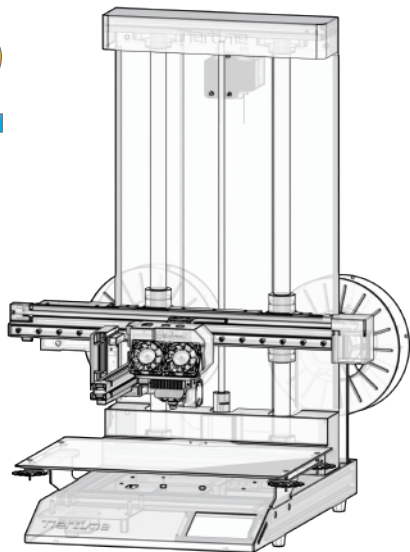
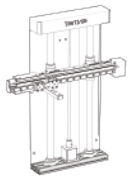


Cetus2

On-the-fly Switching (OTFS)
Dual Extrusion 3D Printer
Quick Start Guide



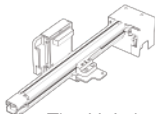
Packing List



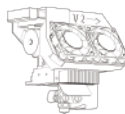
Z-Y-Axis



The Base



The X-Axis



Extruder Head



Spool Holder Kit



Ribbon Cable (short)



Filament Sensor



USB-C Cable



Power Cord



Scraper



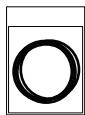
Glue Stick



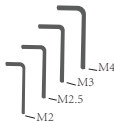
SD Card



Filament Feeding Tube



Filament Samples



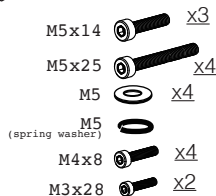
Hex Wrenches



Pliers



Nozzle Wrench



Fasteners

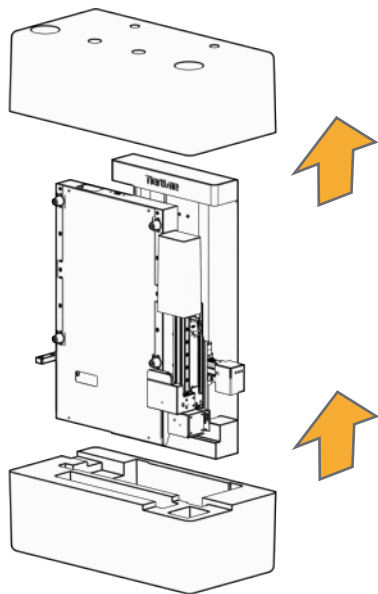
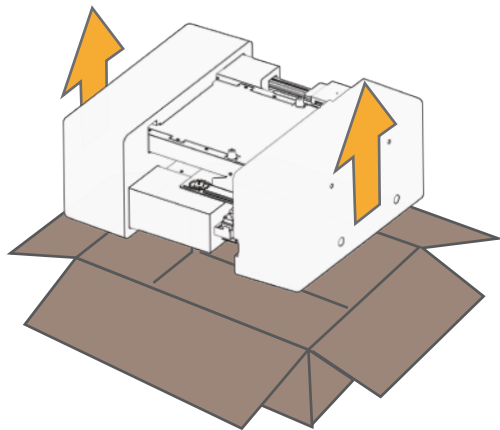


Spare Nozzle (optional)

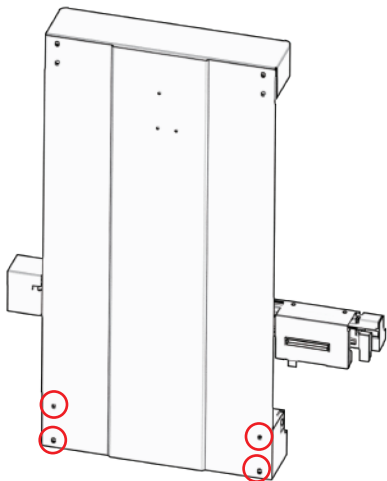


Nozzle Retaining Nut (optional)

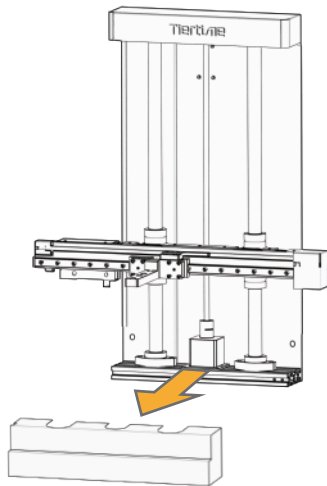
UnPacking



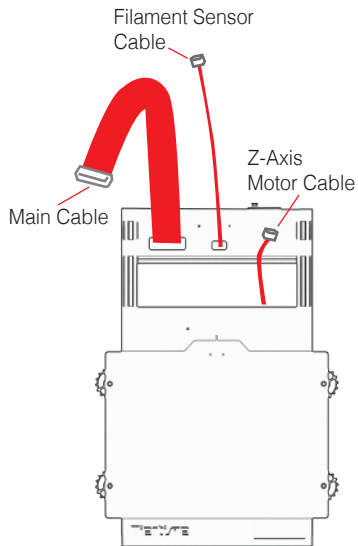
UnPacking



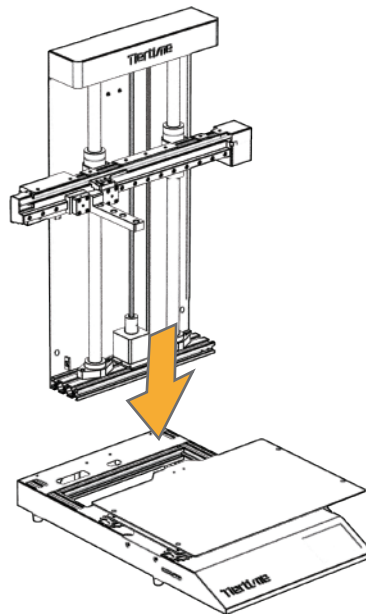
Remove 4 screws on
the back of Z-Y Axis.



Remove the front shield.

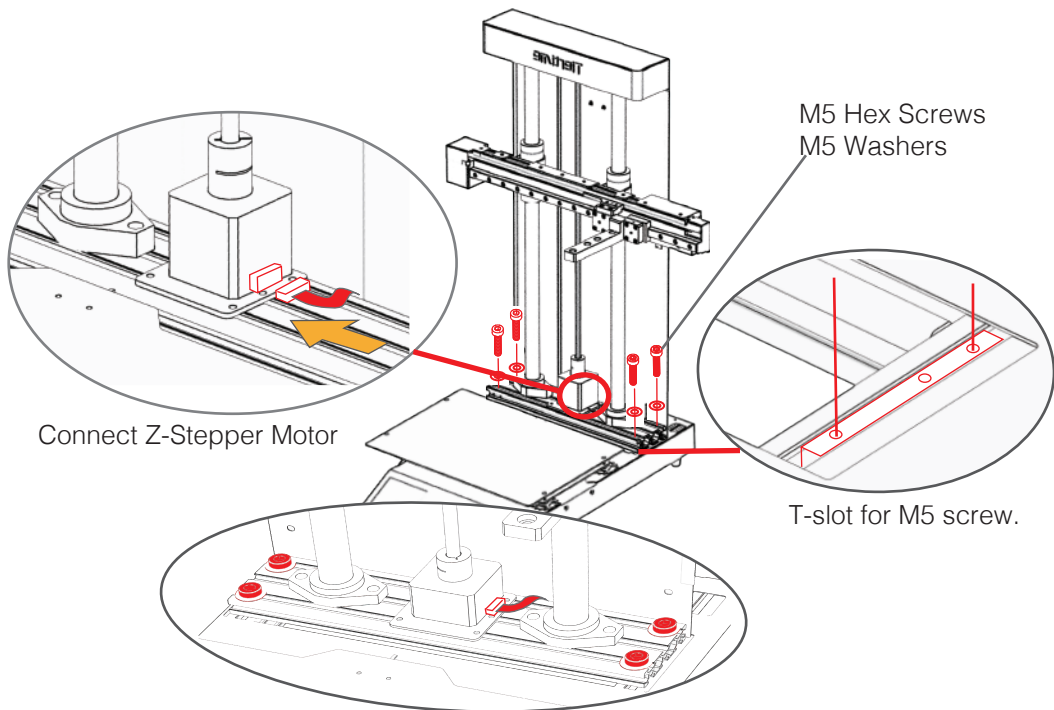


Find the 3 cables from the base module.



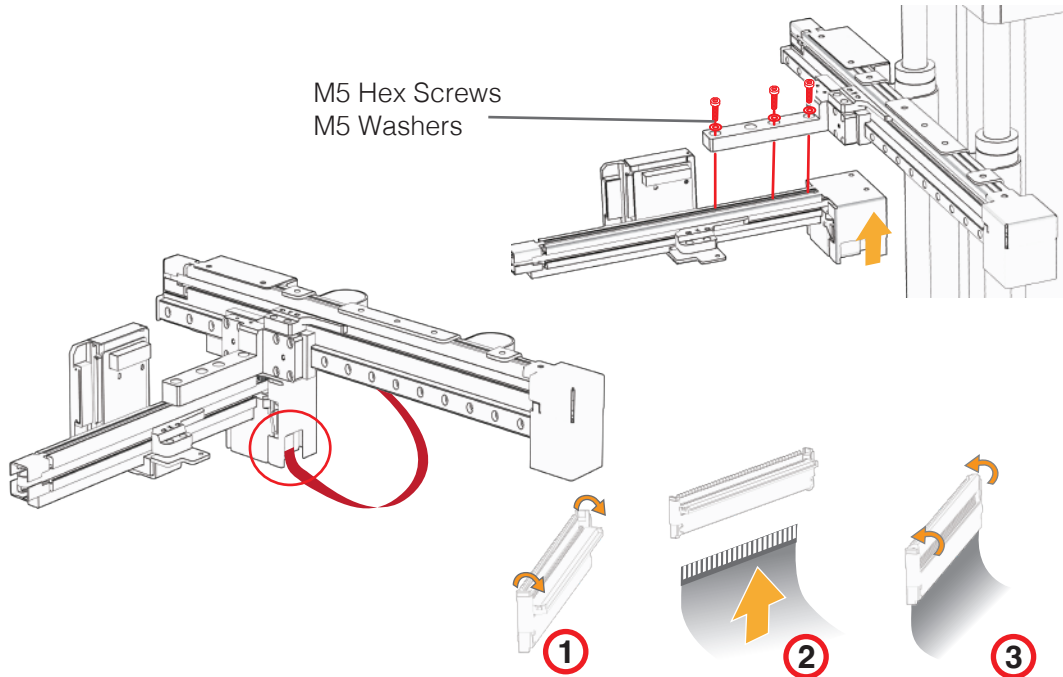
Sit the Z-Y Axis onto the base module.

Assembling Y-Z Axis

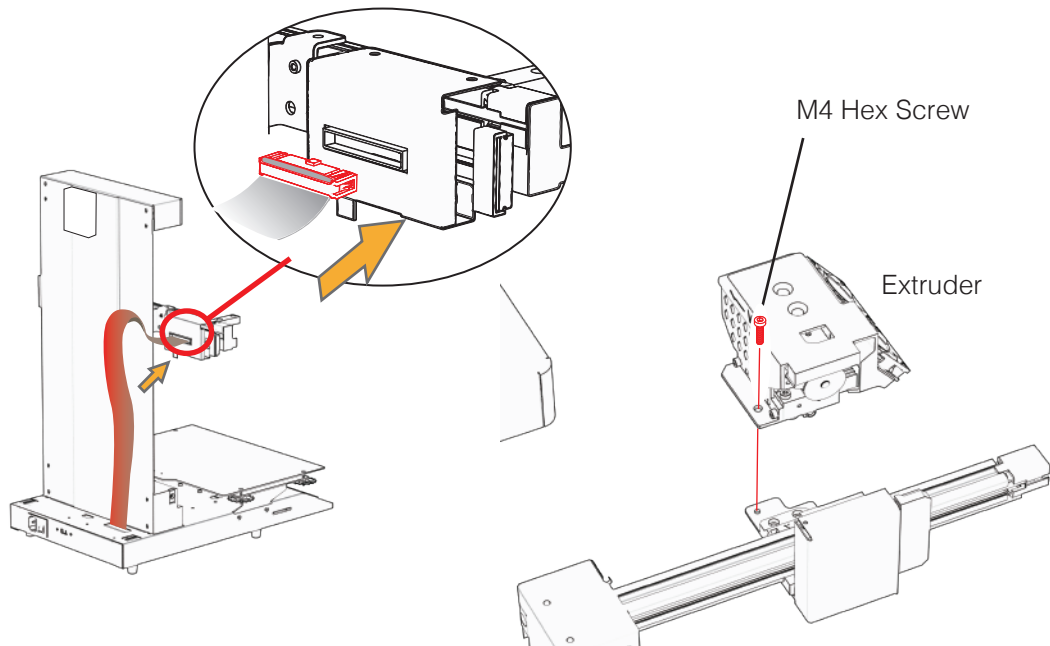


Assembling X-Axis

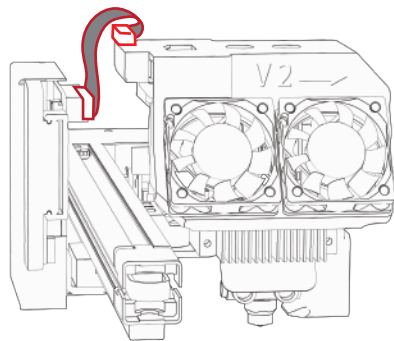
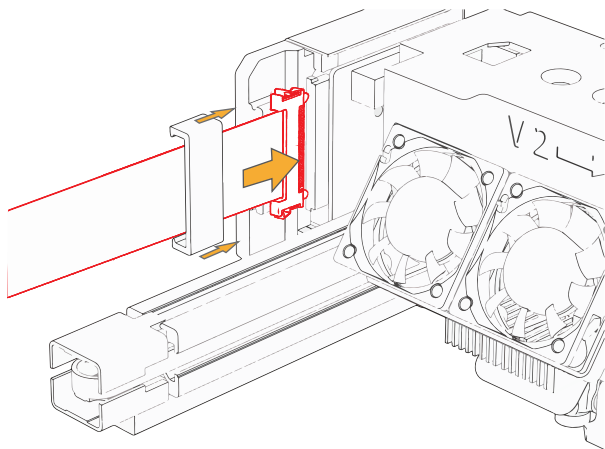
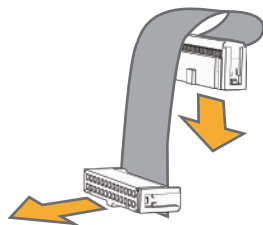
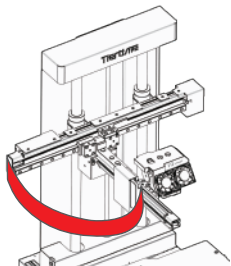
M5 Hex Screws
M5 Washers



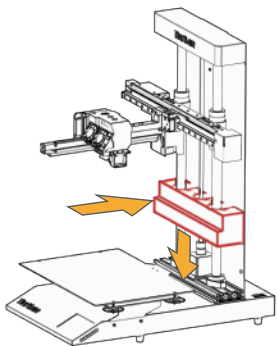
Install Extruder



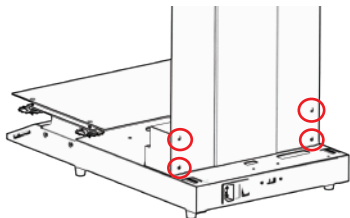
Connect Extruder Cable



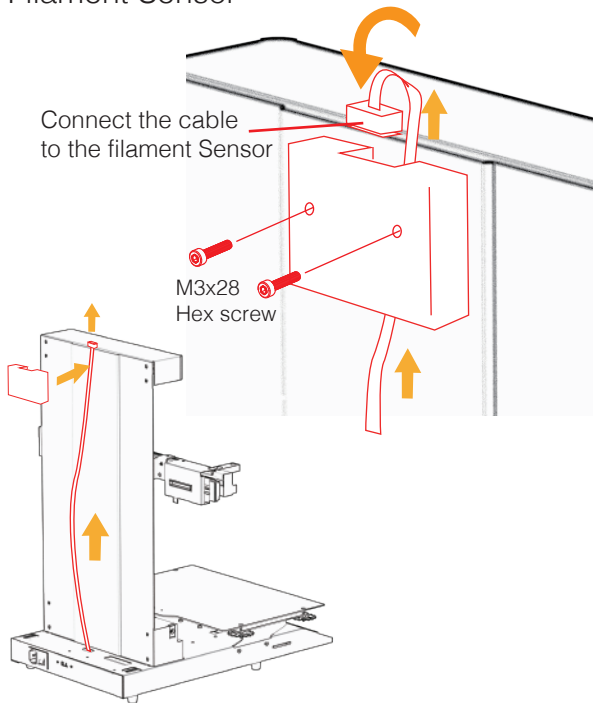
Install Filament Sensor



Put front shield back



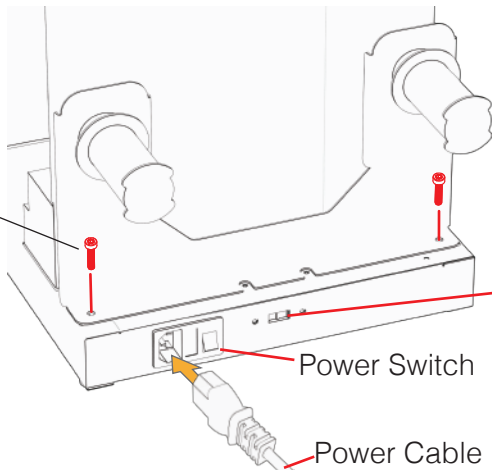
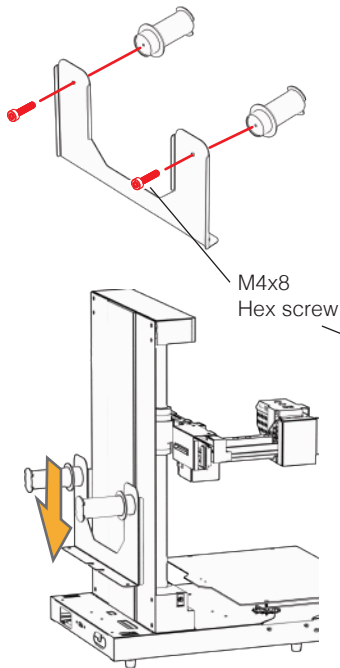
Reinstall 4x M4 screws



Connect the cable
to the filament Sensor

M3x28
Hex screw

Install Spool Holder



Heated Bed
Input Voltage
Switch

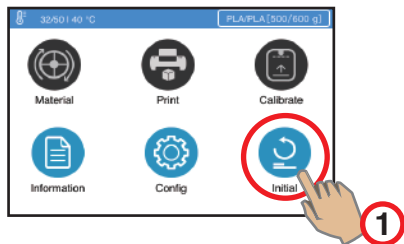
WARNING

The heated bed
uses AC Power,
already set to
correct voltage
when left factory

incorrect voltage
will damage the
printer circuitry.

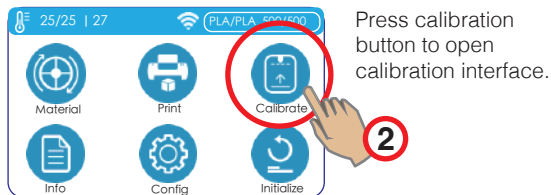
DO NOT change it
unless you fully
understand the
consequence!

Printer Initialization and Calibration



Initialize printer by pressing initialization button.

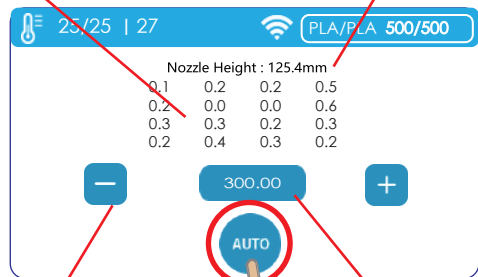
Press “AUTO” button to initiate Auto Calibration process. The printer extruder will then lower to touch the platform surface on 16 locations to probe the platform height values. The value will be calculated and compensations will be applied and the nozzle height value will be shown on the interface.



Press calibration button to open calibration interface.

Compensation Values
(The smaller the better)

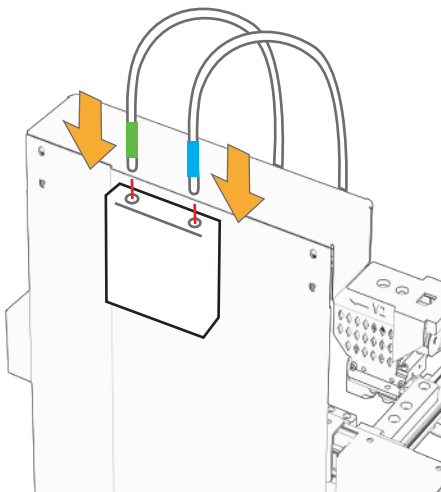
Current nozzle height value
(Z-level)



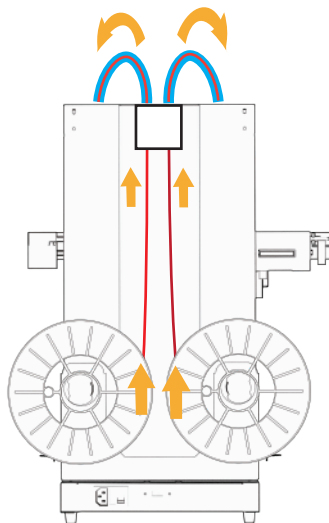
Raise or Lower
Extruder (Z-axis)

Current Extruder
position on Z-axis

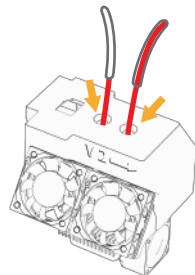
Filament Sensor and Feeding



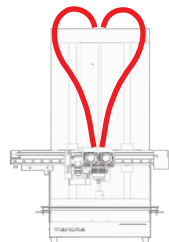
Insert filament feeding tube into the Filament Sensor.



Insert filaments into the Filament Sensor.

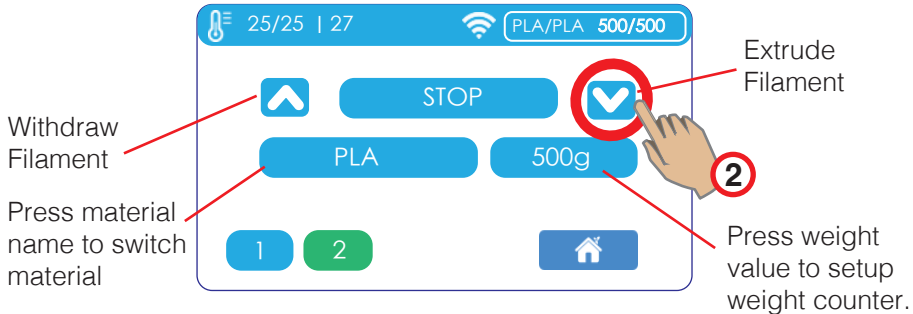
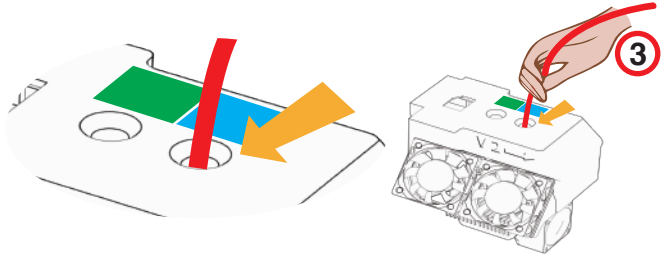
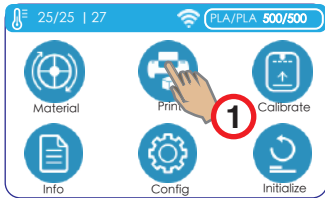


Filament and feeding tube goes into corresponding entrance on the extruder.

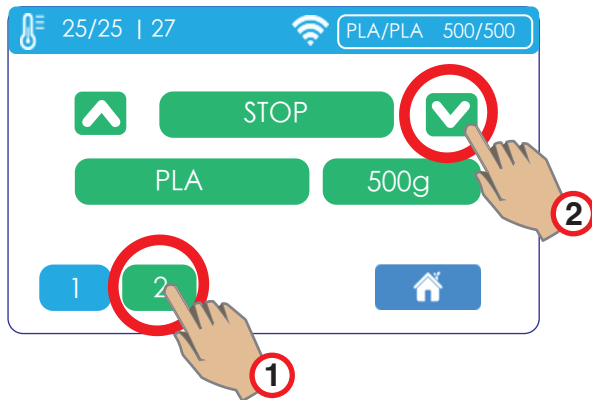


Loading Materials

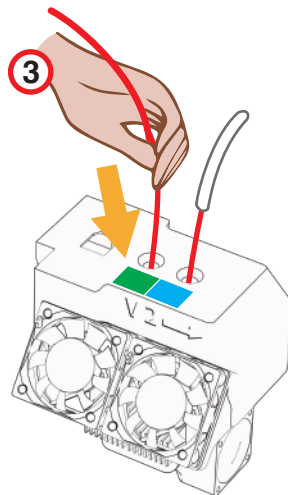
Press “Material” => Extrude (down arrow) The extruder will heat up and extrude filament when target temperature reached.



Loading Materials

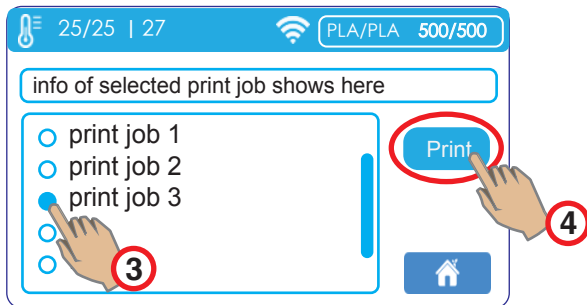
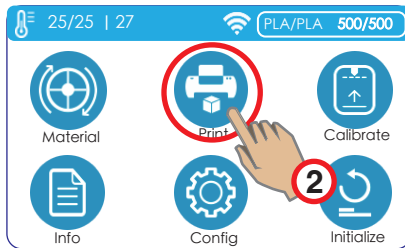
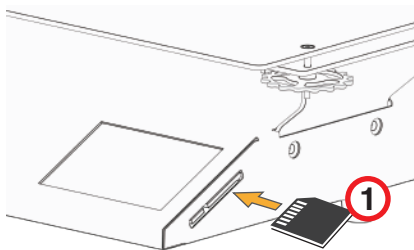


Press "2" button to switch to Extruder 2 and feed the filament.

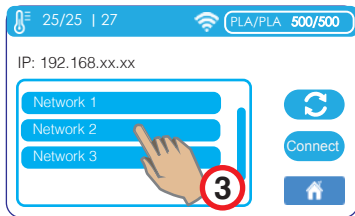
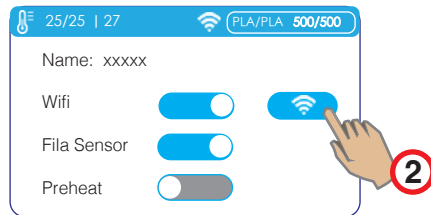
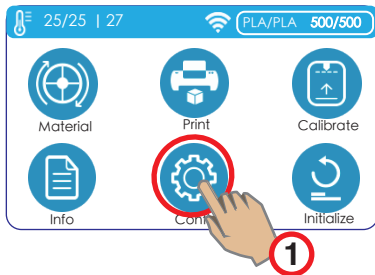


Insert Filament into extruder entrance until filament grabbed by extrusion mechanism

Start a Test Print



Setup WiFi



Choose a network to connect.
The printer and computer must
be on the same network.

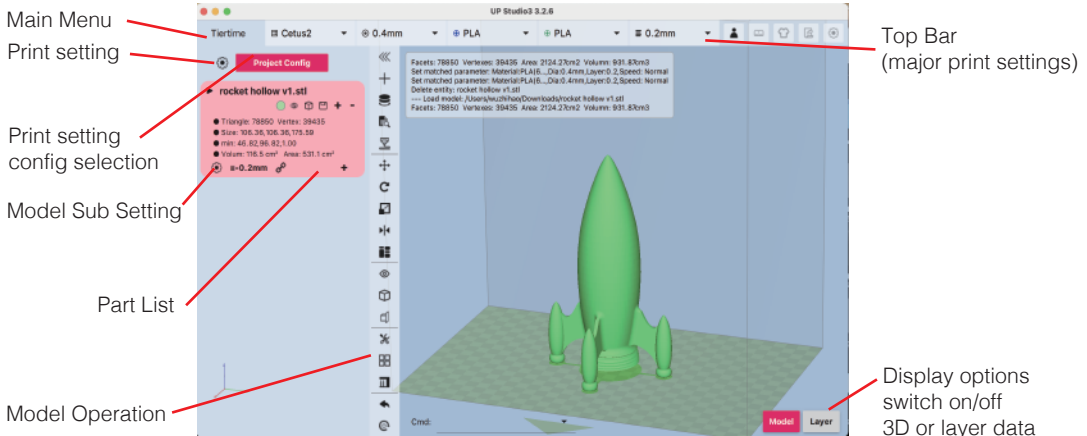
Use a hex wrench as touch-pen.
Input WiFi password and press
Enter key.

Software

Cetus2 use UP Studio 3.0 as default slicer. UP Studio 3.0 can be downloaded from:

1. <https://www.cetus3d.com/software>
2. <https://www.tiertime.com/software>

A printer hosting software Wand, is also provided, for connecting from computer to printer and essential printer operation functions. Wand is included in the installation package of Windows version of UP Studio 3. For Mac, Wand is a separate installer (.dmg). Wand can also download from links above.



Connecting to Printer

1. Wand is a separate software that will be opened automatically when the user opens UP Studio 3. It will remain in the tool bar unless the user closes it.

Connecting from "Wand" printer manager:

The image shows a screenshot of a Mac desktop with the Wand 3D Printer Manager application open. The desktop background is a light gray with a dock at the bottom. The Wand 3D Printer Manager window has a blue title bar and a white background. A red circle with the number '1' points to the Wand icon in the dock. A red circle with the number '2' points to a 'Connect To Printers' button in the center of the window. A red circle with the number '3' points to a list of printer names on the right side of the window. The list includes: 520874, 280727, 400109, _test-x5, UP 300-2, test-350, and 5338-test300H. Below the window, there are several labels with red lines pointing to specific parts of the interface: 'Printer Name' points to the printer name '520874' in the top left of the window; 'Printer Status' points to the 'Ready' status in the top left; 'Print Head Location' points to a vertical green bar in the center; 'Material Operation' points to the 'Extruder 1' settings (ABS, 278 g, 0.4mm) on the right; and 'Printer Operation' points to the 'Stop' button in the bottom right of the window. The 'Maintain' section at the bottom contains buttons for 'Initialize', 'Plat Heat On', 'Height Detect', 'Level Calibration', 'Model Calibration', 'Print', and 'Stop'.

1

2

3

Printer Name

Printer Status

Print Head Location

Material Operation

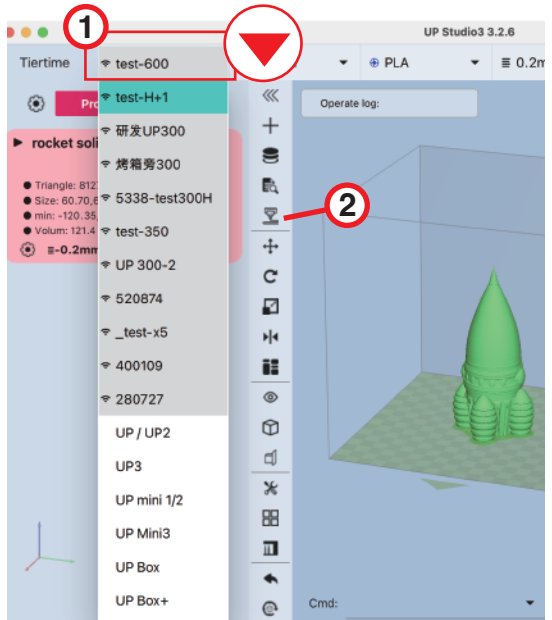
Printer Operation

Connecting to Printer

2. Alternatively user can connect from UP Studio 3 directly. When click the arrow button on the right side of the printer name, UP Studio will communicate with Wand and get the list of available printers from Wand.

The list may take a few seconds to load/refresh, the immediate list shown may not be the full list of printers.

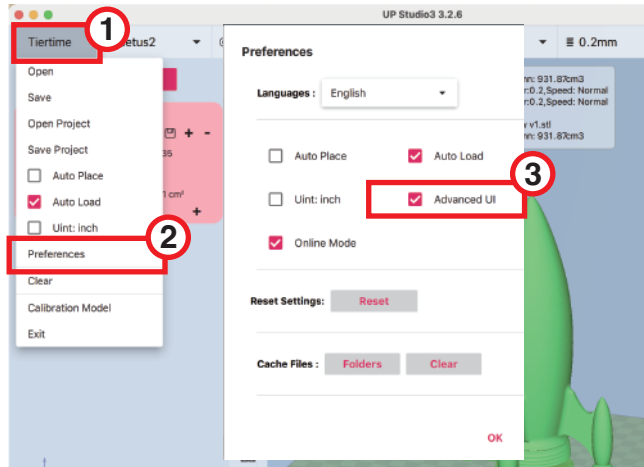
When connected, user can use the “Print” button to send print job directly from UP Studio 3 to printer.



Basic and Advanced Mode

UP Studio 3 by default is in “Basic Mode”. In Base Mode, the options for print settings is limited and the software will provide “wizards”, to guide the user step by step, how to setup a print job.

Advanced users could switch to “Advanced Mode” where all wizards are disabled and all print setting option are opened to users.



**To switch to Advanced Mode, go to:
Main Menu (Tiertime button on top left) => Preference => Advanced UI**

Firmware Update

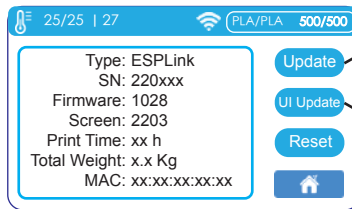
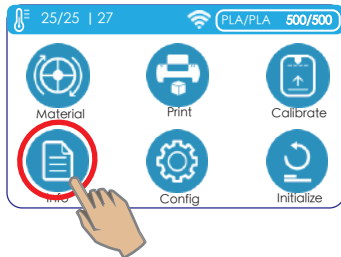
Firmware update can be done by saving update files to SD card and then update from SD card on the touch screen. Update file can be download from following URL:

https://www.cetus3d.com/cetus2_update/

There are 2 types of update files, one for updating printer controller firmware, and the other is touchscreen firmware. Extract the update files and save to the root directory of a SD card. Insert the SD card into machine's SD card slot.

Then go to **info => update**.

After finishing the update, power cycle the printer to load the new firmware.



Update Printer Controller Firmware

Update Touchscreen Firmware

Specification

Material Diameter	1.75mm
Nozzle Diameter	0.4mm, 0.6mm
Max. Nozzle Temp.	280 ° C
Max. Print Speed	200mm/sec
Motion Control	5-Axis Synchronized X-Y-Z-E1-E2
Stepper Driver	TMC 2209
Printing Volume	200x300x300mm (XYZ)
Printing Accuracy	± 0.1mm/100mm
Layer Thickness	0.05-1.0mm
Leveling	Automatic by force sensor
Nozzle Height/ Z-Level	Automatic by force sensor
Build Platform Surface	Caborundum Glass
Max Bed Temp.	100 ° C
Material Flow Monitor	Detects: Presence,Flow Breakage

Official Slicer	UP Studio 3
Host	Wand
3rd Party Software Support	Yes, Simplify3D, Cura, Prusa Slicer, etc.
Material Compatibility	PLA, PVA, PETG, TPU, etc. Open material
Connectivity	USB-C, WiFi, SD Card
Power Input	110-240 VAC,50-60Hz, 350W
Physical Dimension	470x600x460 (W-H-D)
Shipping Dimension	500x380x600 mm (W-H-D)
Shipping Weight	20KG
Product Weight	15KG

Contact Us / Get Supports



or send messages to support@cet3d.com