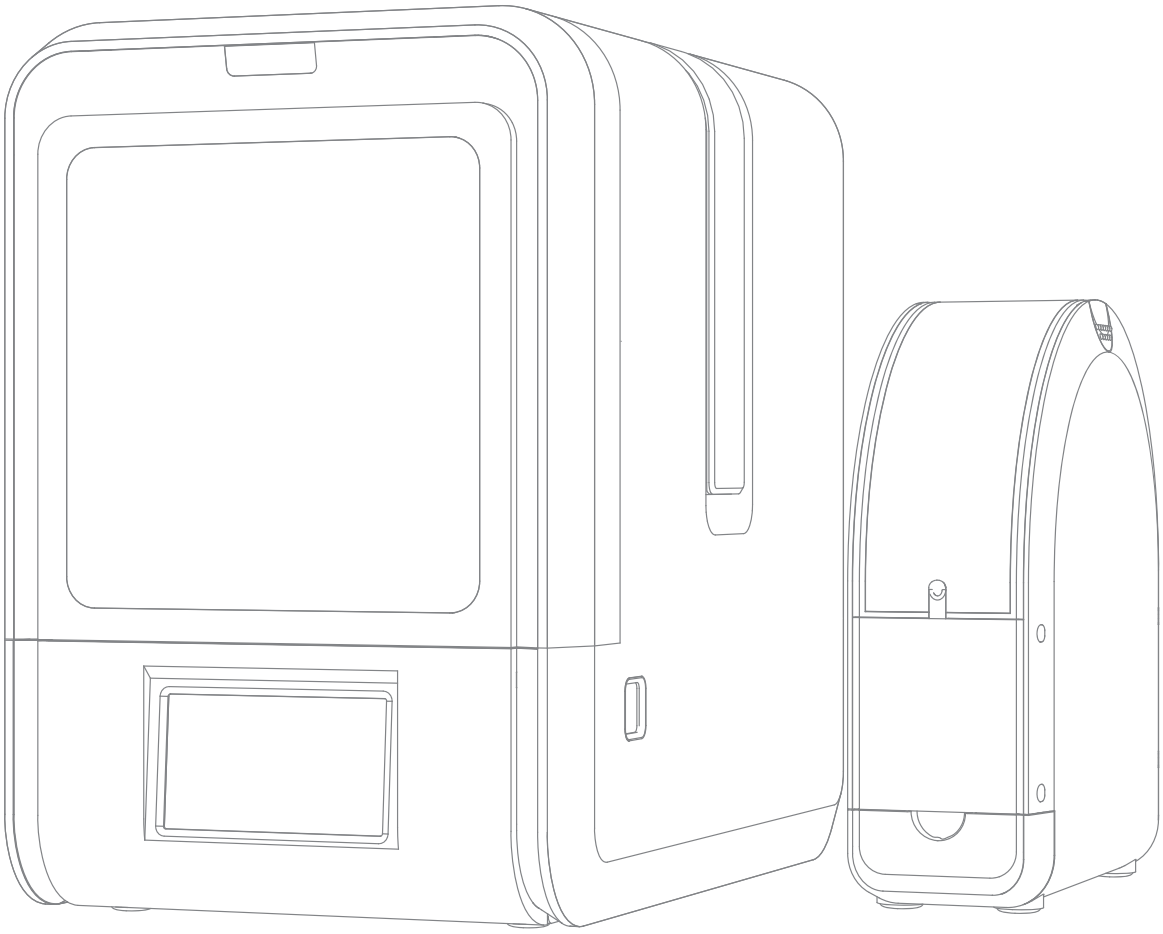
UP mini 2

User Manual

V 0.1



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Safety Precautions

1\ The UP mini 2 3D printer requires the power adapter provided by the original manufacturer,otherwise the machine could be damaged or even cause a fire hazard. Please also keep the power adapter away from water and out of high temperature environments.

2\ During printing, the nozzle of the printer will reach 260°C and the print platform could reach over 70°C. Please do not touch these parts with your bare hands while they are hot—not even with the heat resistant gloves included with the machine—as the temperature could damage the gloves and injure your hands.

Warning label:
High Temperature, do not touch!

3\ During printing, the printhead and other mechanical parts move at high speeds. Touching these parts while they are moving could casue injuries.

Warning Label:
Moving parts, do not touch!

4\ Please wear goggles when removing the supporting material from models and detaching models from the perf board.

5\ When printing with ABS and PLA, the plastics will create a light odor. Please run the printer in a well-ventilated environment. We also suggest you put the printer in an environment with a stable temperature as unwanted cooling could cause adverse effects to the print quality.
When printer is exturding filament,make sure there is enough space between print head nozzle and the platform. Otherwise the nozzle could be blocked.

Printing Environment

As light odor will be produced during printing, please run the printer in a well-ventilated environment. The UP mini 2's ideal working temperature is between 15°C and 30°C with a relative humidity between 20–50%.
Printing at temperatures out of this range could cause adverse effects to the printing process. When using the “Extrude” function, keep at least 50mm be-tween the nozzle and the platform. If too close, the nozzle may get blocked.

One Year Warranty

Beijing Tiertime Technology Limited (Tiertime) and its authorized resellers war- rants to the original purchaser that this product is free from defects in material and workmanship.
Tiertime or its resellers will for one year, at its option, repair or replace at no charge for parts and labor from the date you purchased the product from Tiertime or a reseller. Nozzles and Print Boards are warranted for ninety (90) days.

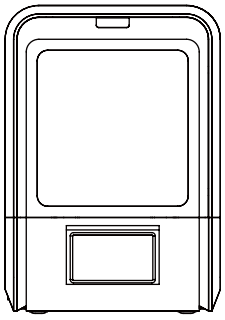
- Tiertime reserves the right to determine the validity of all warrantyclaims.
- Warranty is void if the product serial number has been altered or removed.
- Warranty is void if the product has been misused or damaged or if evidence is present that the product was altered, modified, or serviced by unauthorized service people.

Compliance

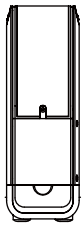
FCC
ROHS
CE

Unpacking

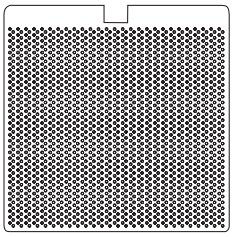
Package Content



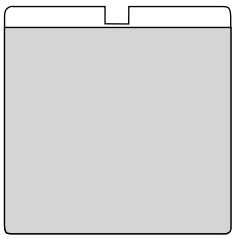
UP mini 2



Spool and Toll Holder

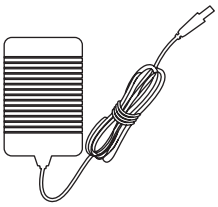


Perforated Print Board
(Perf Board)



UP Flex Print
Board

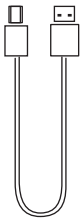
Protective Gloves



Power Adapter

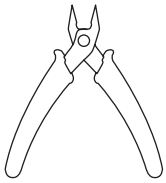
Power Cable

Scraper

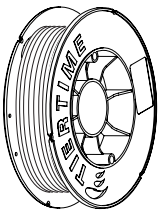


USB Cable

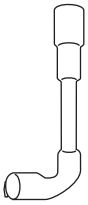
Hex Keys
2.0mm, 2.5mm



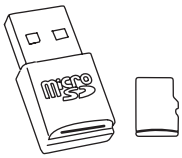
Plier



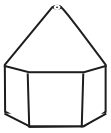
ABS Filament



Nozzle Wrench



Micro SD and Reader



Print Head Nozzle

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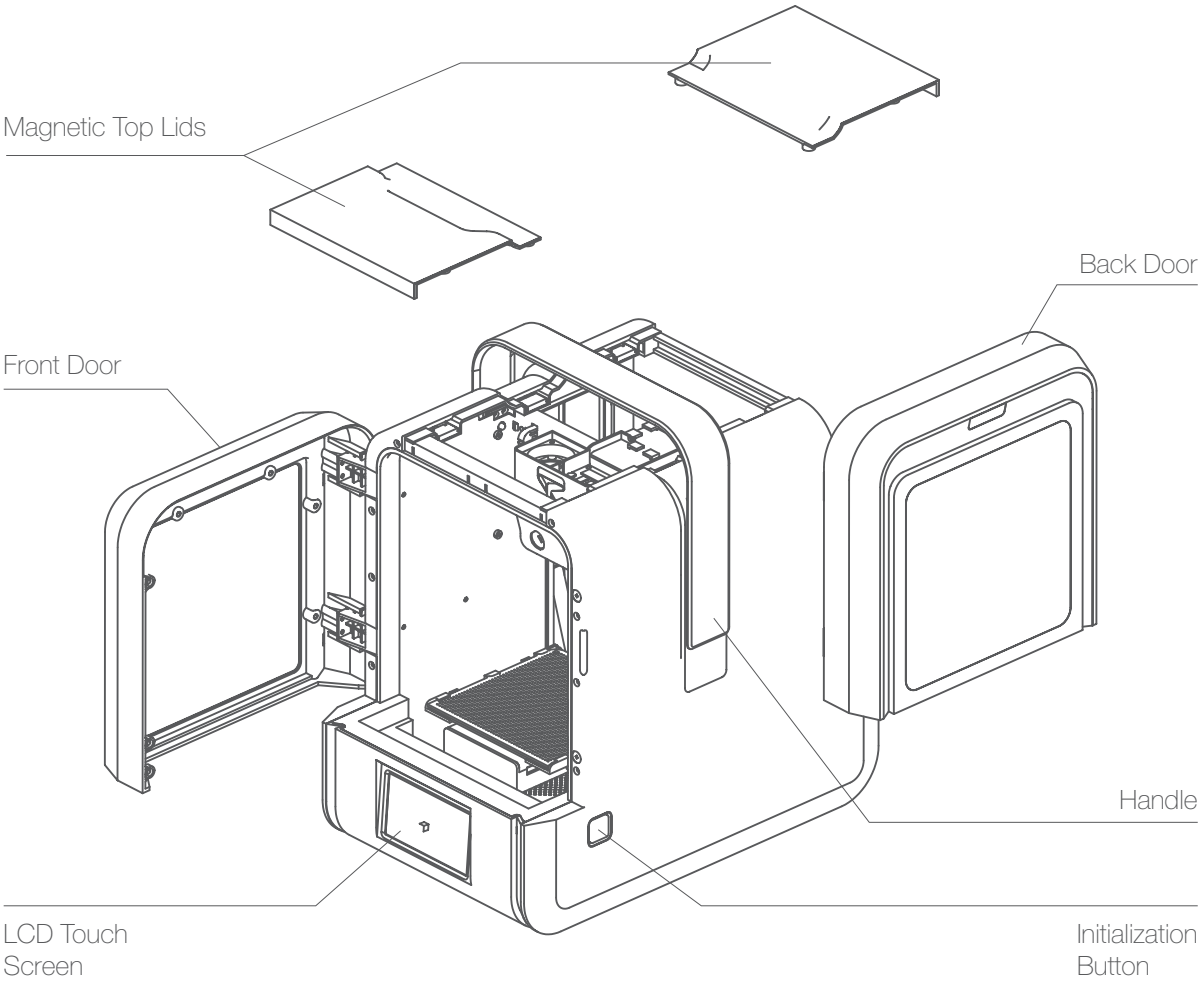
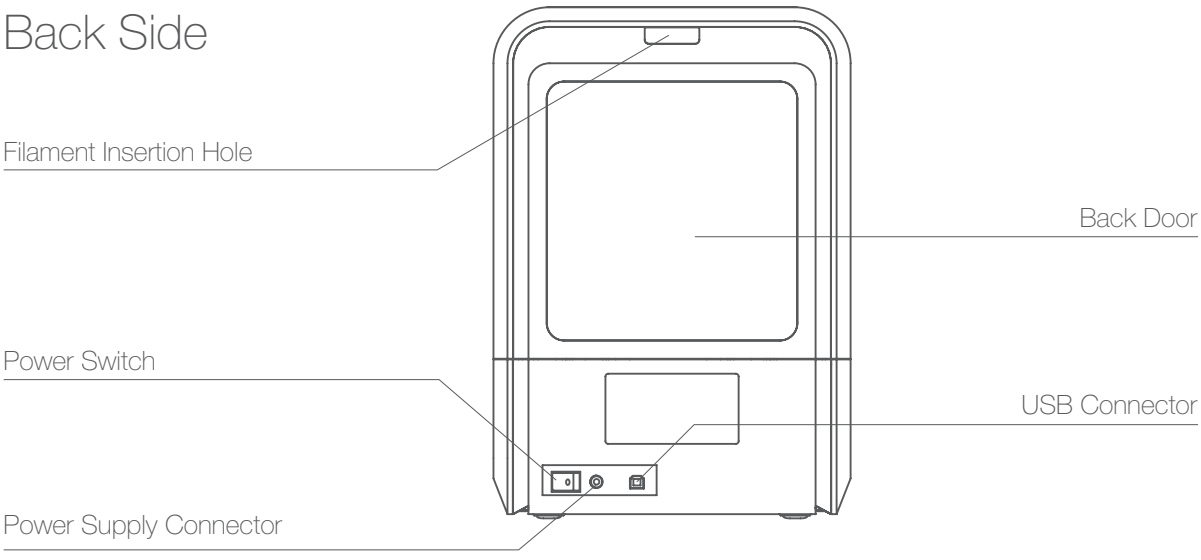
If anything is missing, please contact your local distributor or at support@pp3dp.com

Product Description

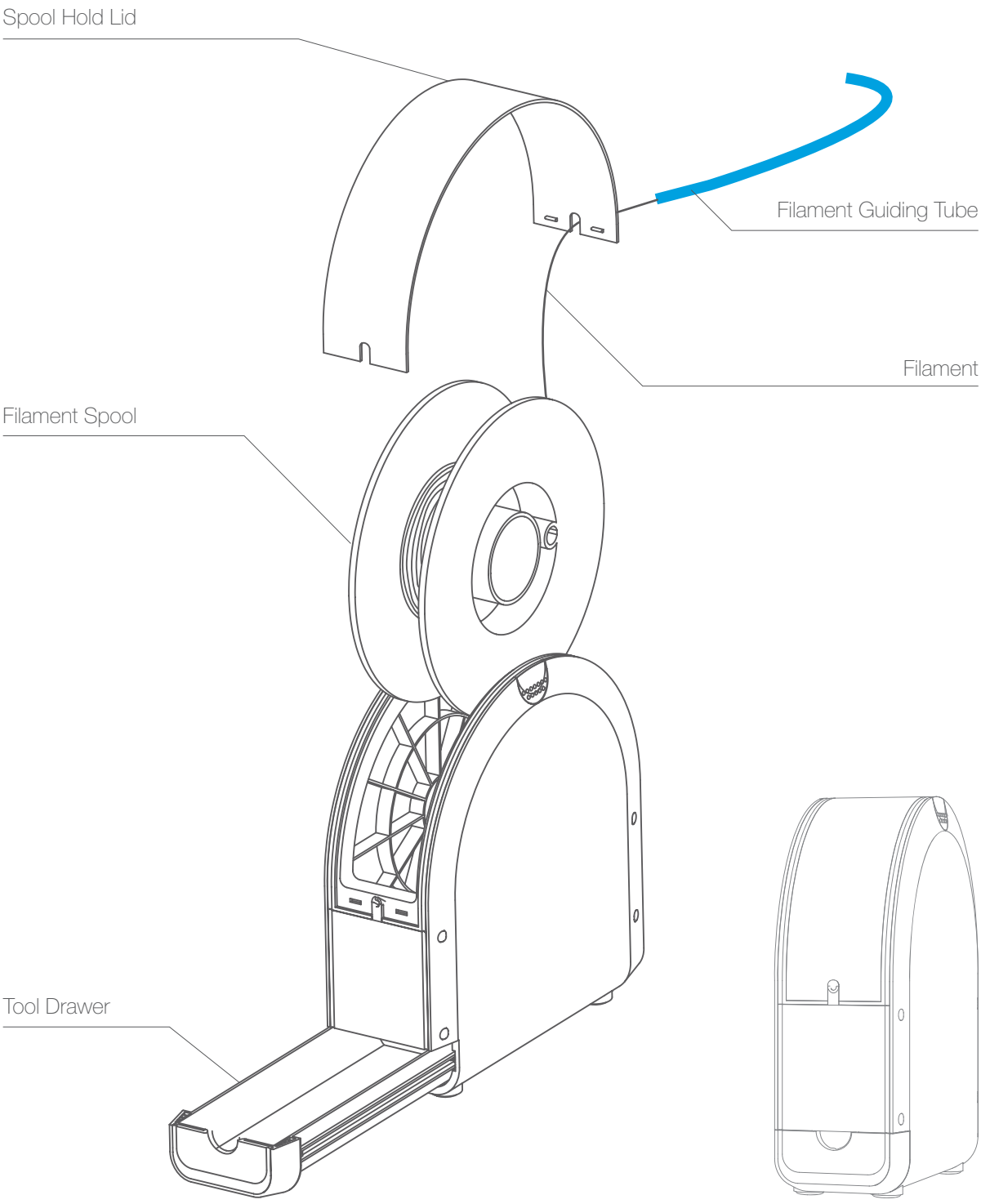
Front Side



Back Side

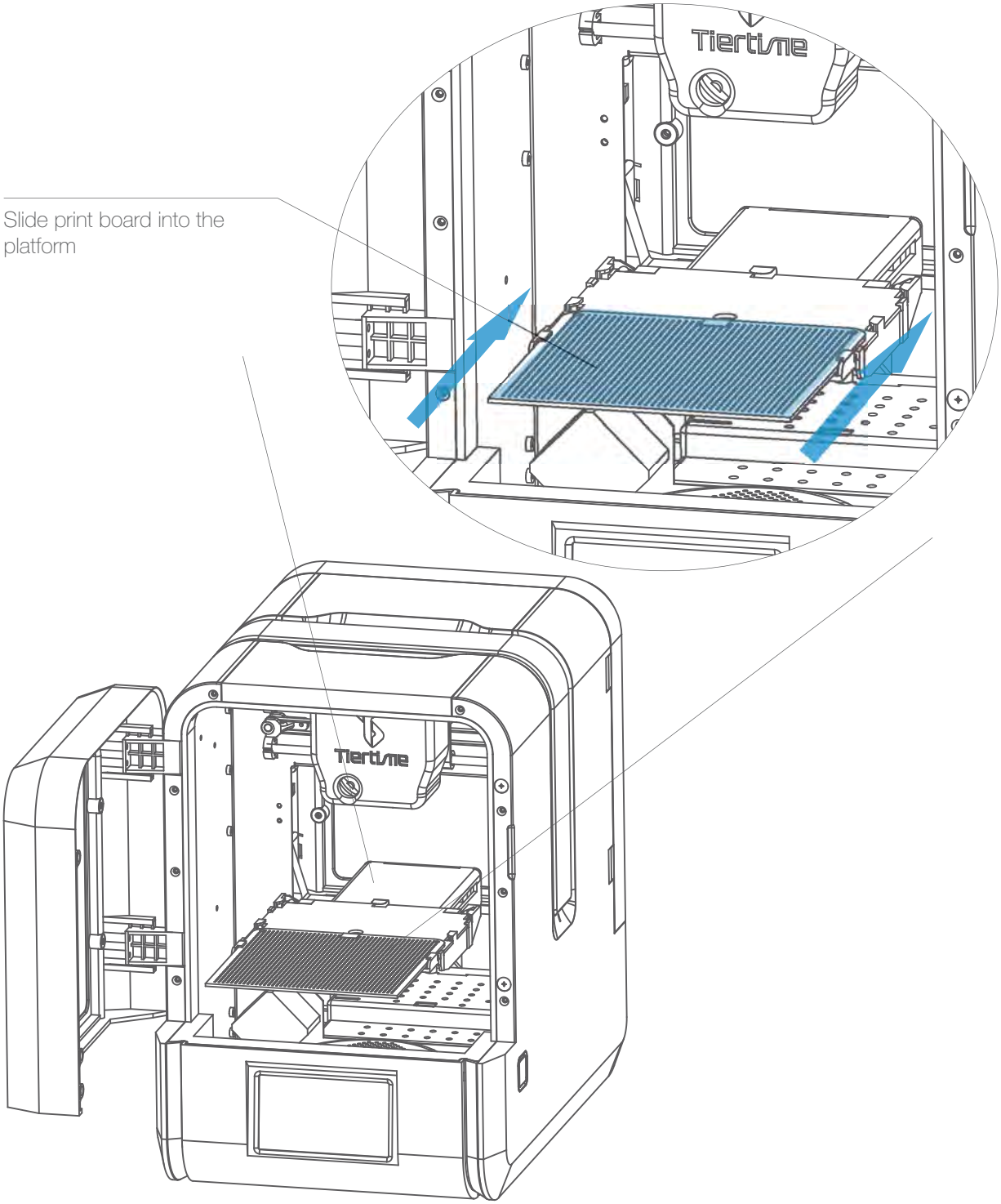


Filament Spool Holder

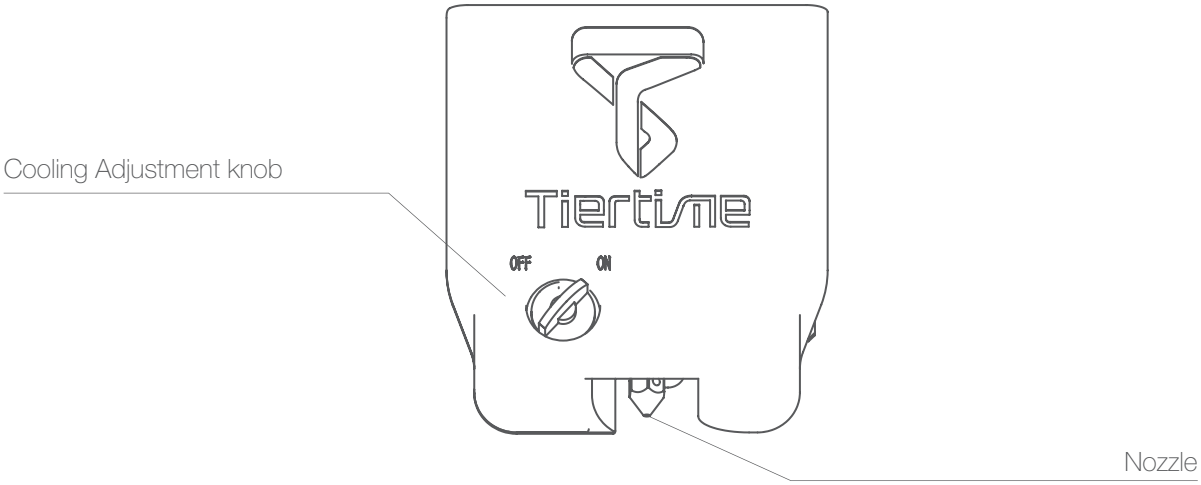


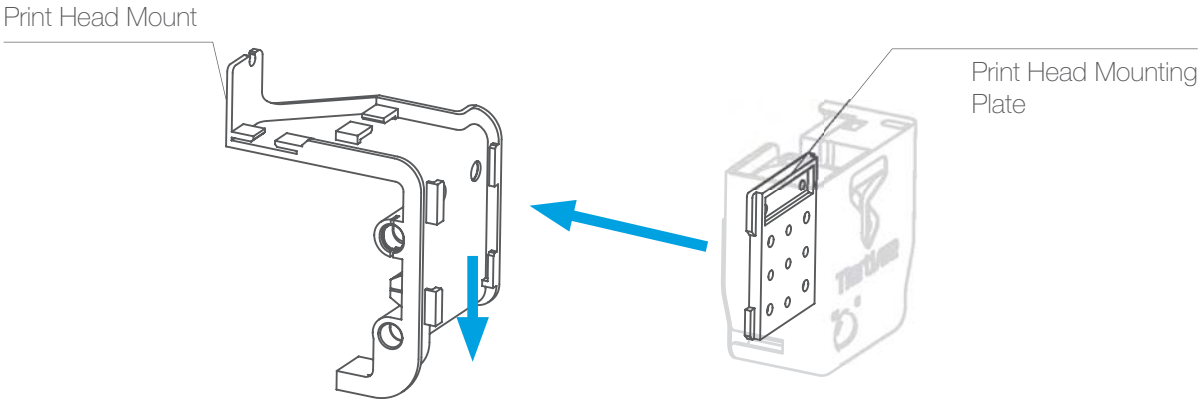
Installation of Print Board

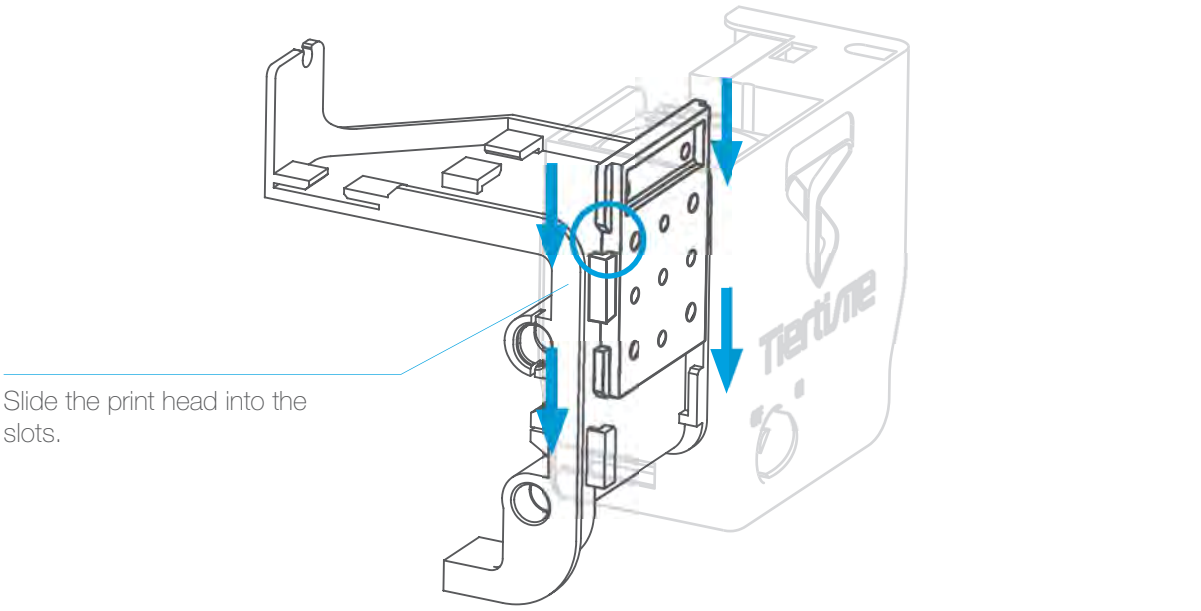
Slide print board into the platform



Print Head Installation







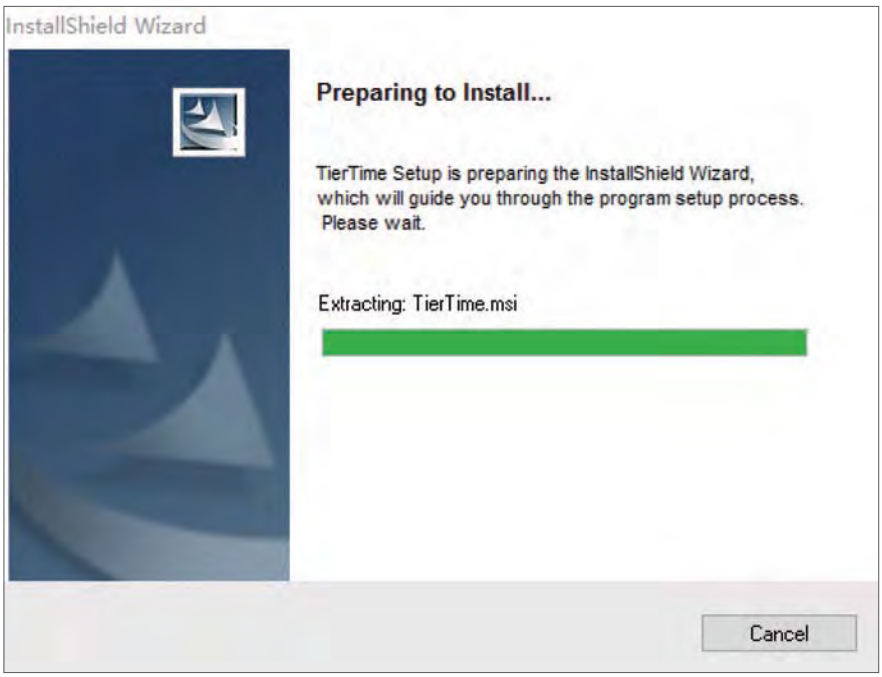
Download and Install UP Software

Two ways to obtain UP software:

1\ From the Micro SD card included in the package (using the mciroSD reader).

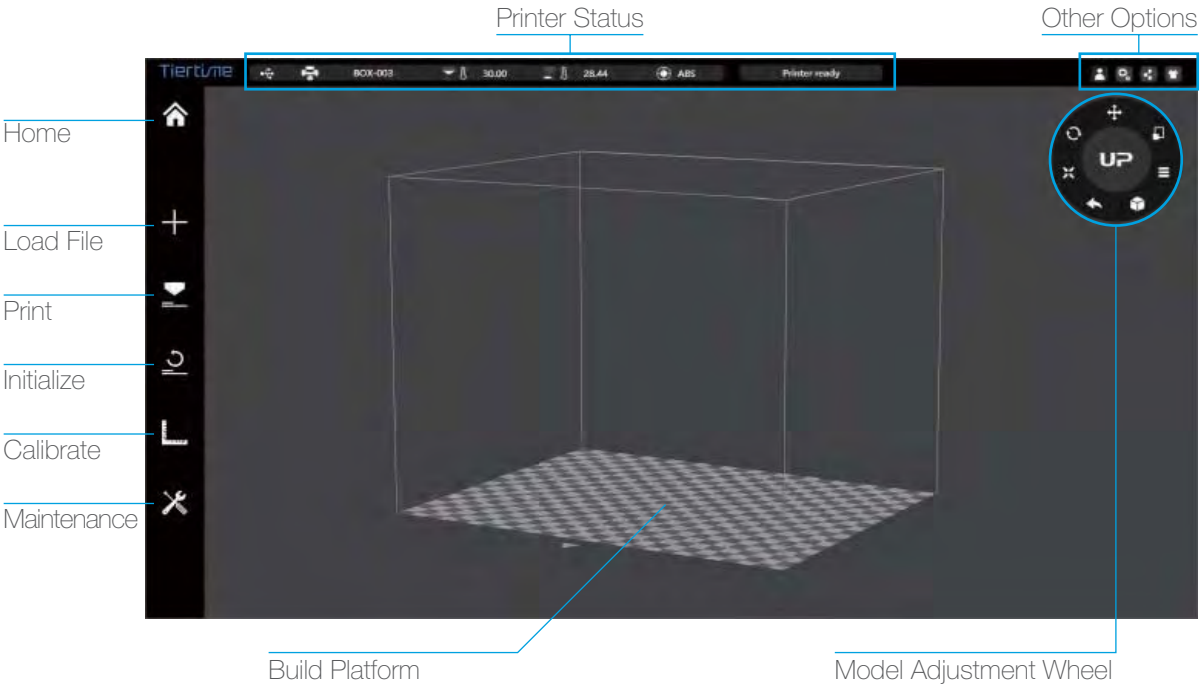
2\ Download the latest version from www.up3d.com.

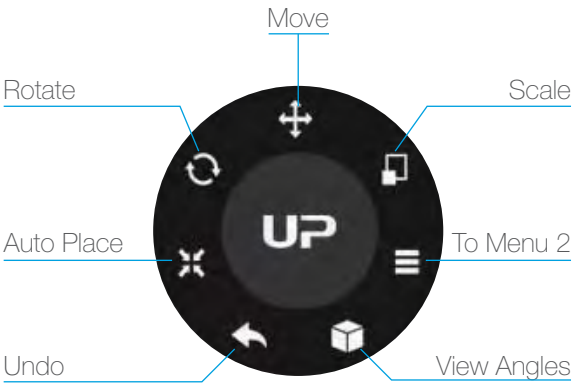
Double click the installation file, following simple instructions, the installa- tion will be finished swiftly.



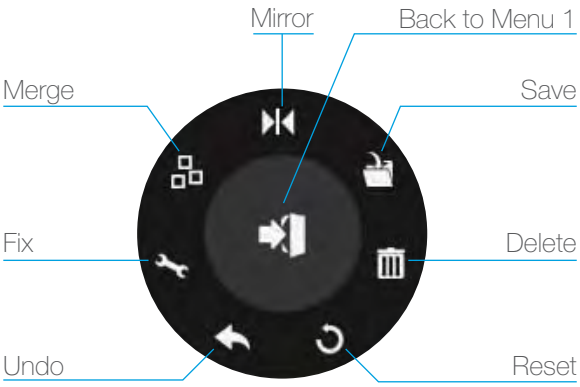
Software Requirements

Software Interface





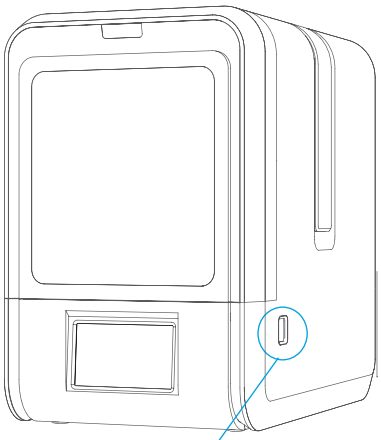
Menu 1



Menu 2

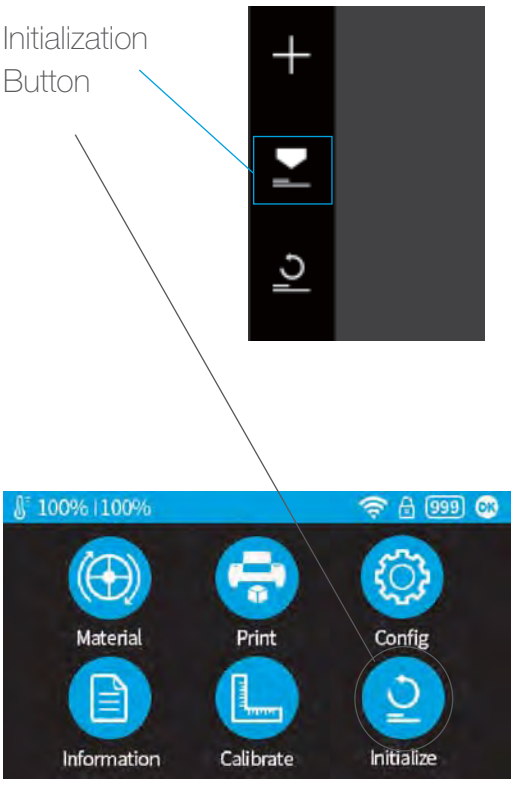
Initialization of Printer

Initialization is required for every time the machine is switched on. During initiali- zation, the print head and print platform move slowly and hit the endstops of the XYZ axes. This is essential as the printer needs to find the endpoints of each axis. The other software options will light up and become available for use only after initiali- zation.



There are two ways to initialize your printer:

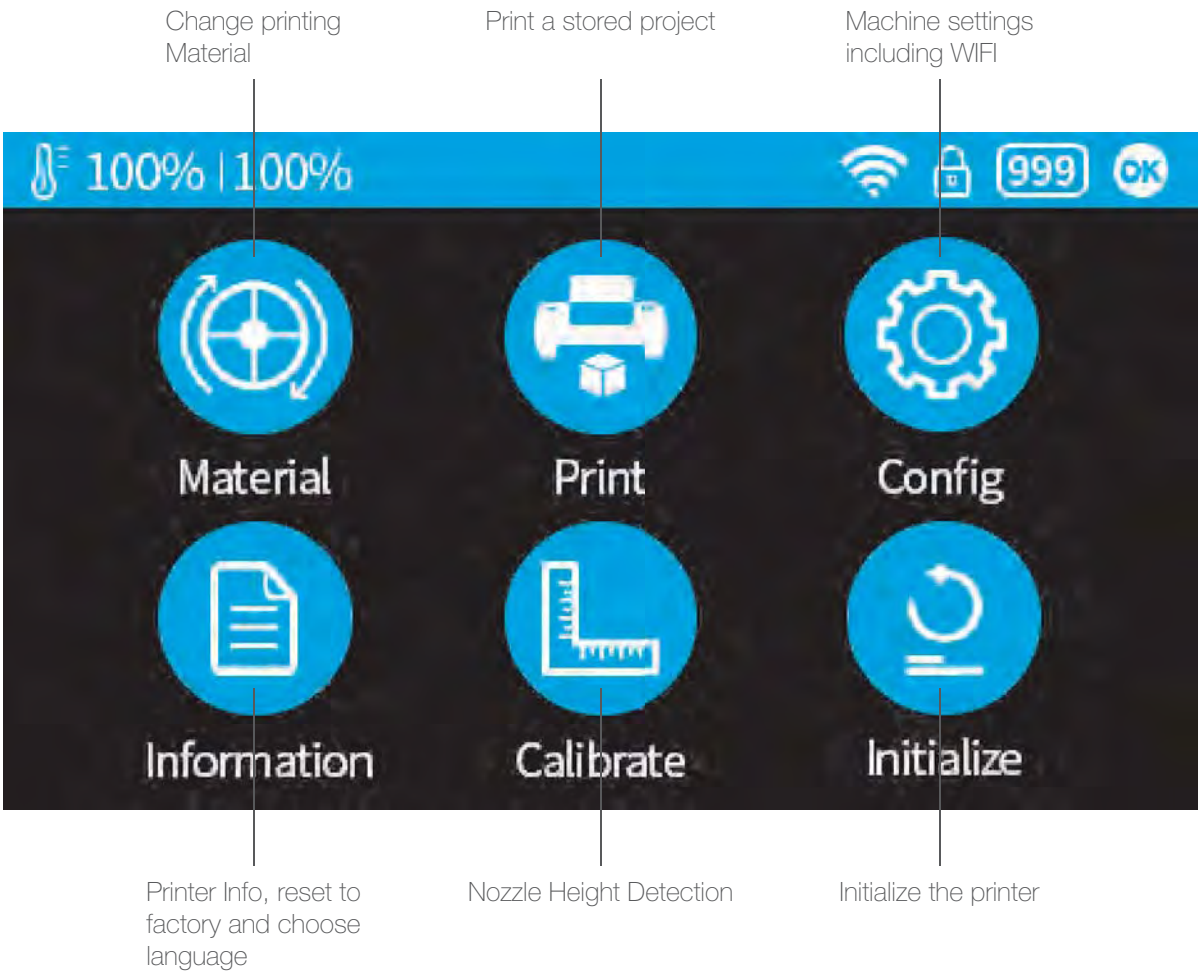
The UP mini 2 can be initialized by clicking the "Initialize" option in the software menu (shown above). When the printer is idle, hold the ini- tialization button on the printer. Press the initializa- tion on touch screen.

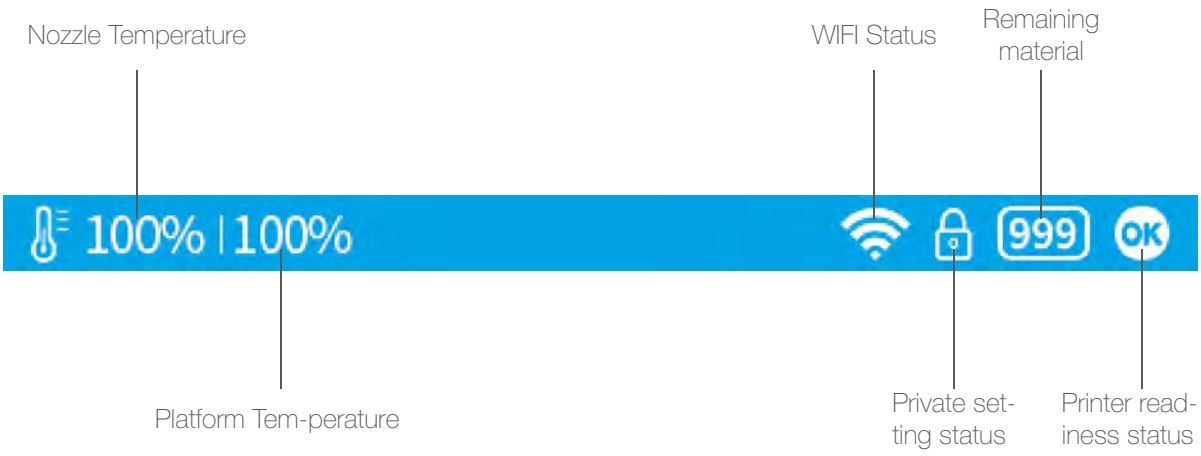


Other functions of Initialization Button:

Stop the current print job: During a print, press and hold the button.
Reprint the last job: Double-click the but- ton.
Turn on/off internal lighting: Single-click the button.

Touch Screen Control



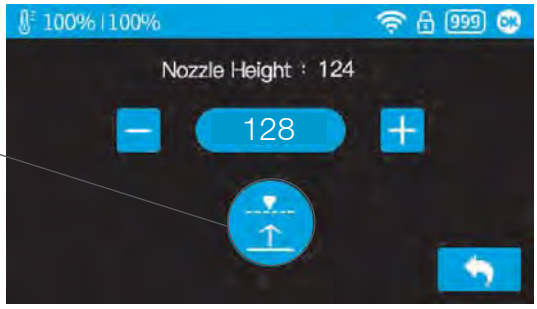


Prepare for Printing - Update Nozzle Height

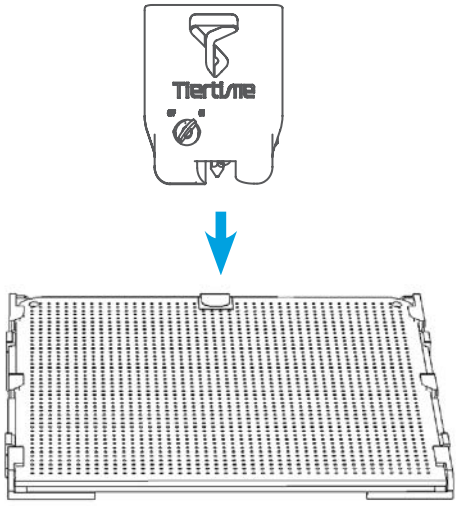
The printed was calibrate before leaving the factory, but users are recommend to update the nozzle height value use the automatic nozzle height detection function through the touch before the first print.

Press Calibrate button to enter nozzle height setting screen.

Press the “Nozzle Height Detection” button to start the automatic process.

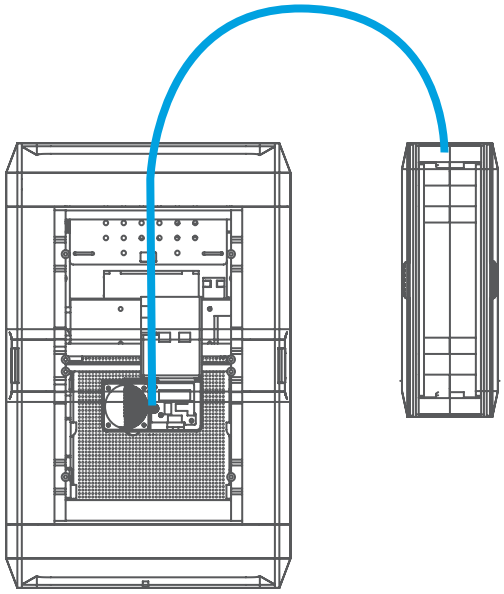


During nozzle height detection, the print head nozzle will touch the thin metal sheet on the detector to make meas- urement.

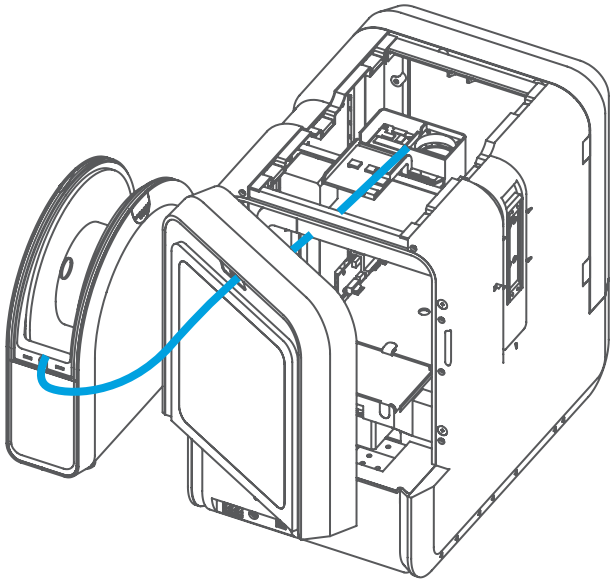


Prepare for Printing - Load Filament

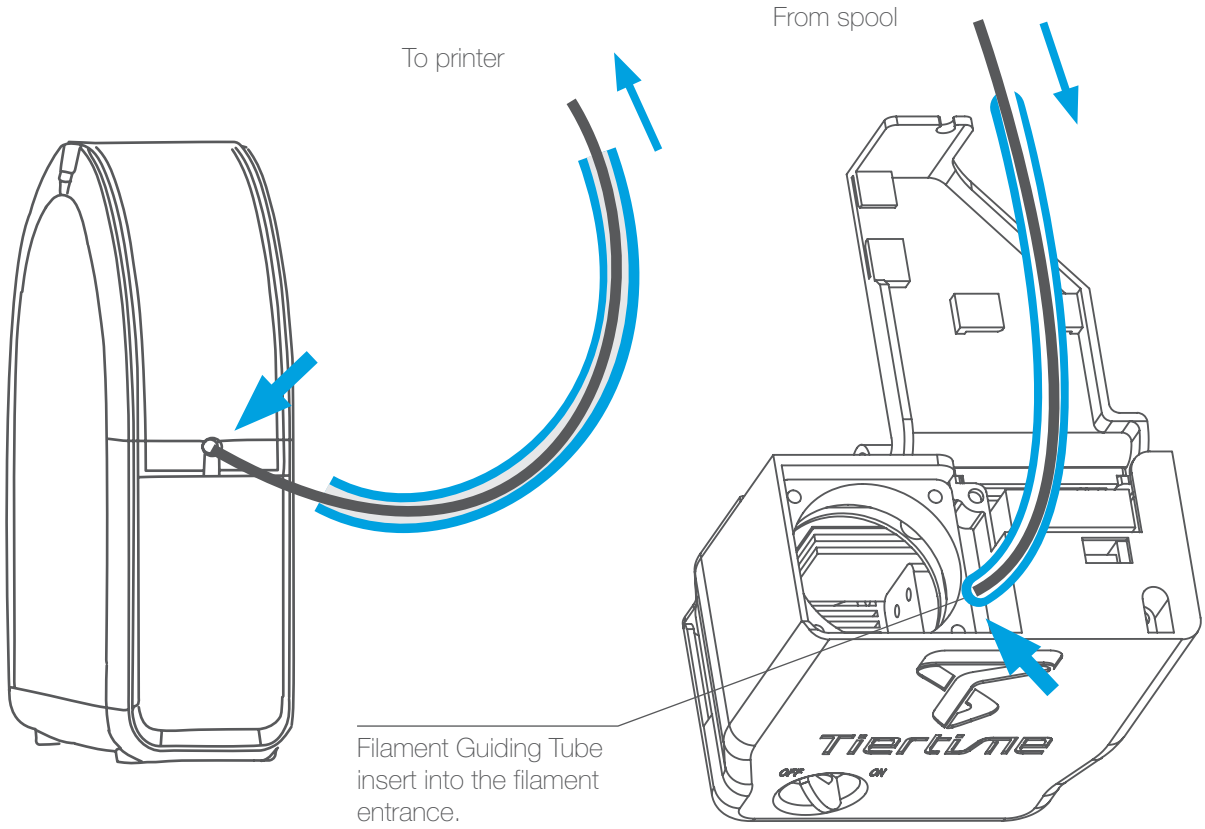
install the filament and guiding tube shown in red.



Front

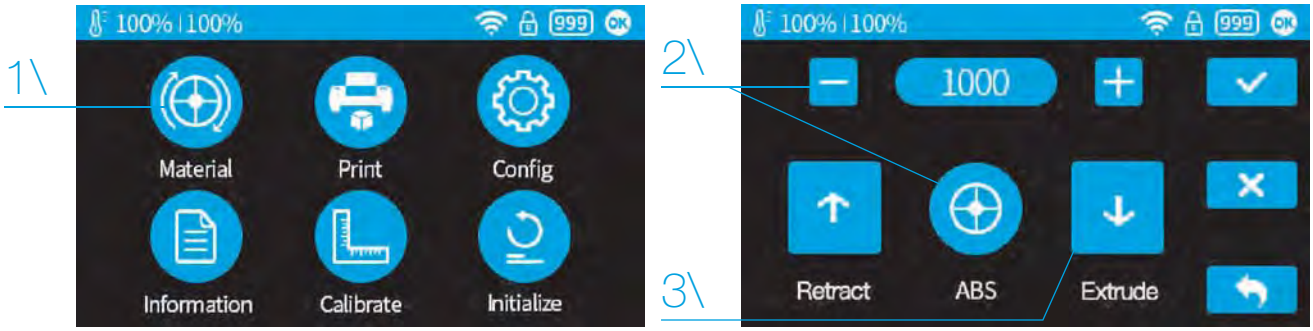


Back Side



Safety Precautions

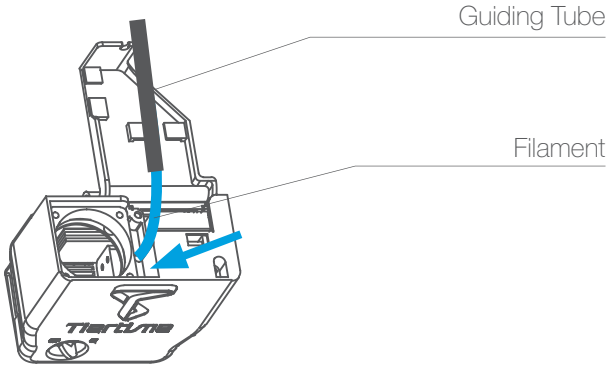
1\ Insert the filament from the spool into guiding tube, arrange the guiding tube as shown in previous page. Press the Material button on the touch screen.

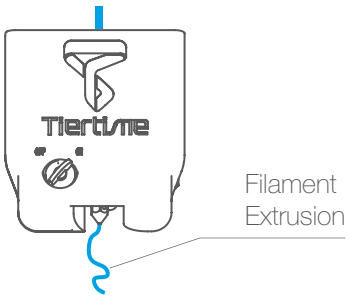


2\ Choose the printing material as ABS by press the Wheel button to switch between different mate- rials input the filament weight by using the +/- buttons.

3\ Click "Extrude." The print head will start to heat up, within five minutes. Its temperature will reach 260°C, then the printer will buzz and the print head will start to extrude.

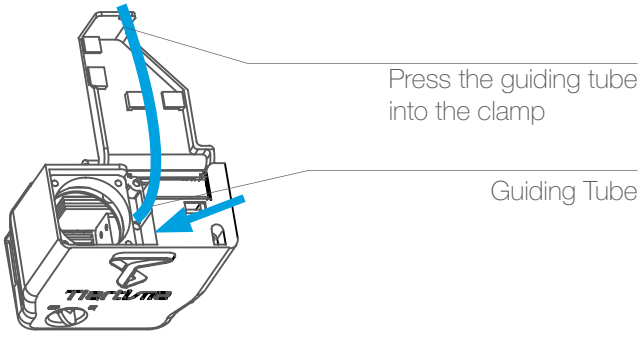
4\ Gently insert the filament into the small hole on the print head. The filament will be fed into the print head automatically when it reaches the extruder gear inside the print head.



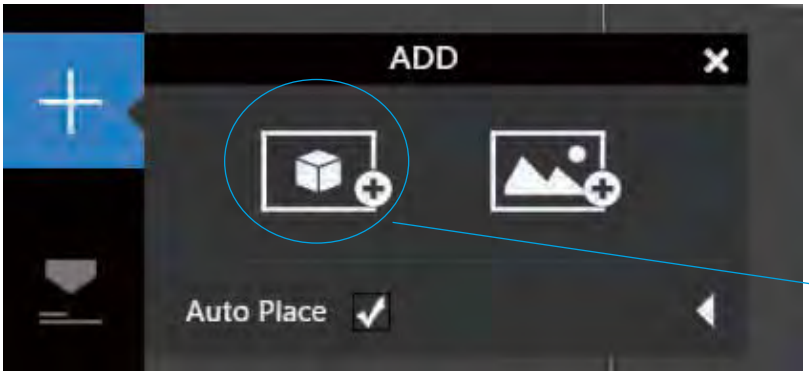


5\ Check the nozzle for plastic extrusion. If plastic is coming out from the nozzle, that means the filament is loading correctly and the printer is ready for printing. (The extrusion will stop automat- ically.)

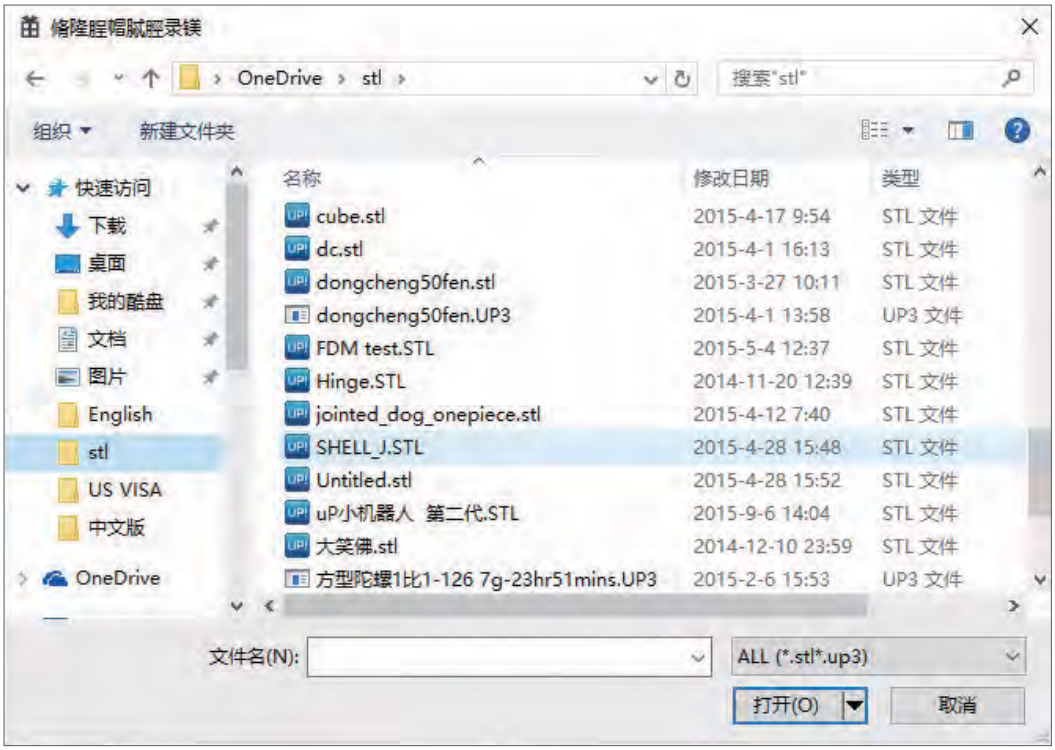
6\ Finally insert the guiding the tube in to the filament entrance and press the tube into the holding clip on the print head mount.

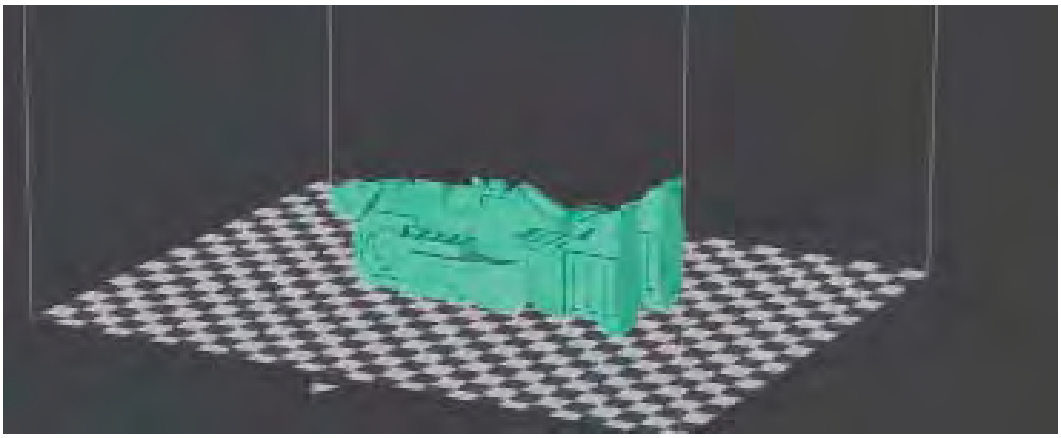


Loading a 3D Model



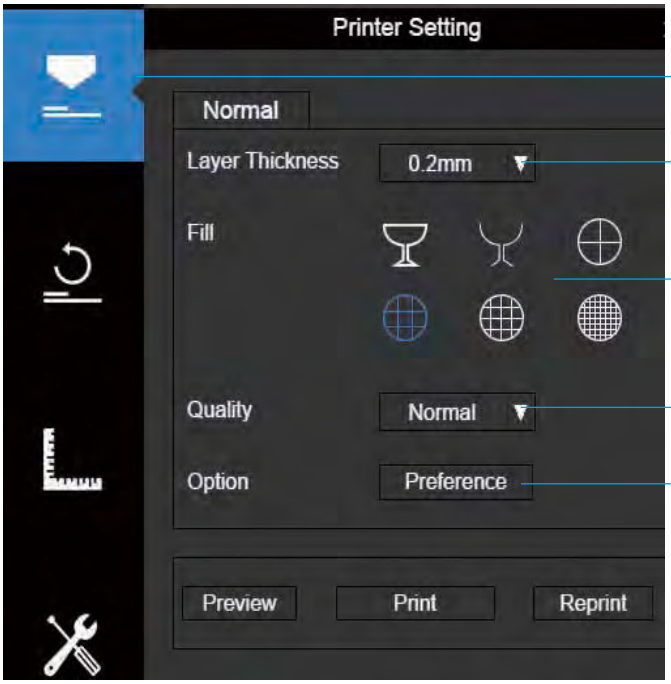
Load Model Button





Print a Model

Make sure printer is connected to computer throug USB or WIFI (go to page xxx for details about WIFI setting)and loaded a model.



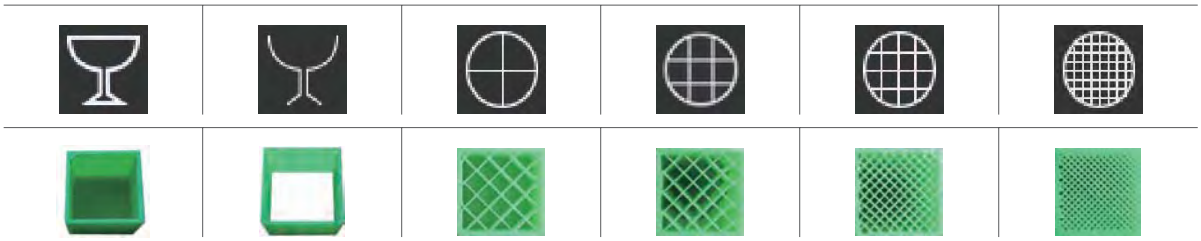
Click print button to open the print interface

Set Layer Thickness

Select Infill Type

Select Print Quality/Speed

Advanced Options



Shell: No infill, normal wall.

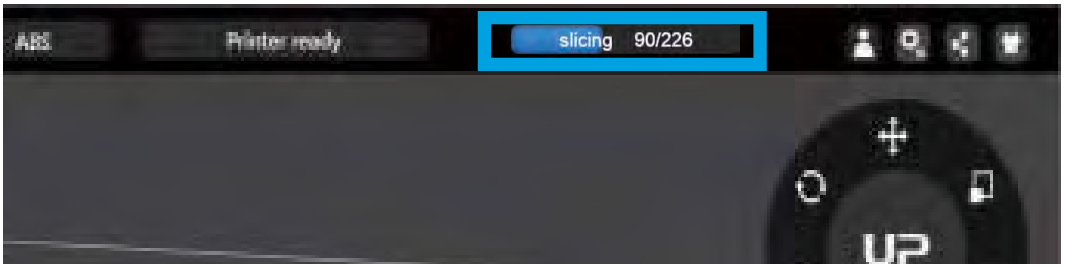
Surface: No top and bottom layers, no infill, single perimeter.

Hollow

Big Hole

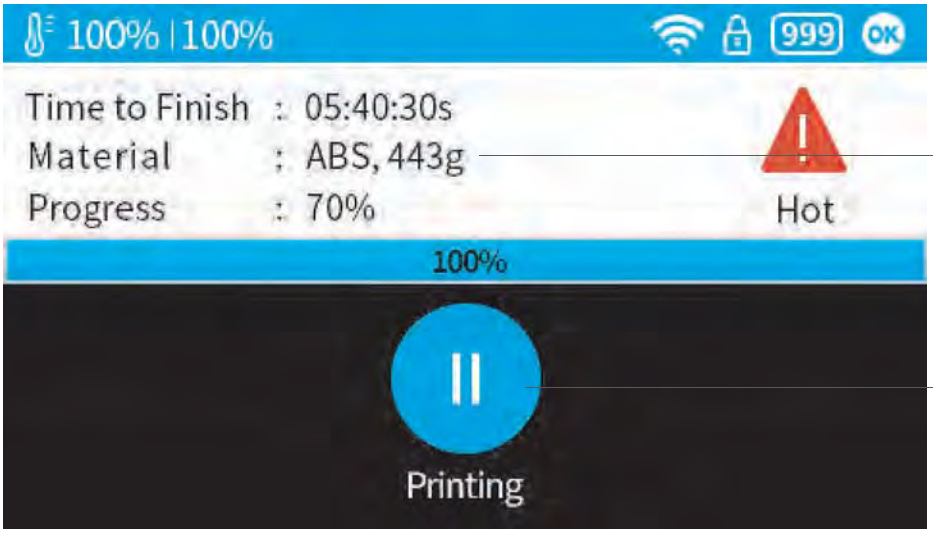
Loose Fill

Solid Fill

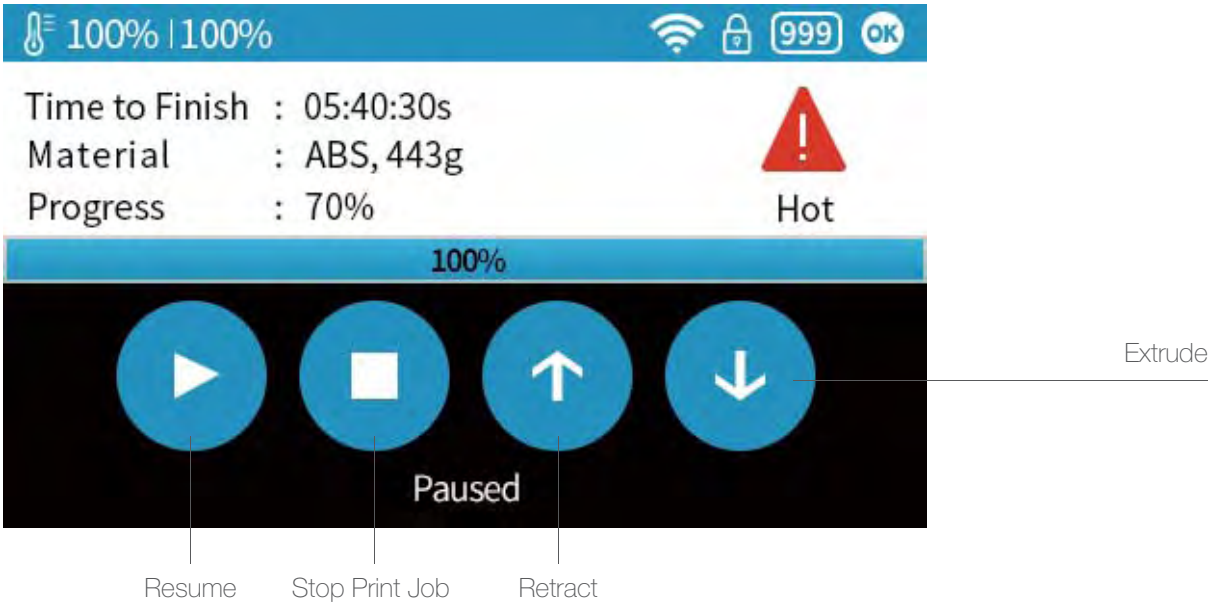


When the UP software is slicing or sending data to the printer—progress dis- played on the status bar on top of the software interface —do not unplug the USB cable as this will disrupt the data transfer and result in a print failure. The USB cable can be unplugged after the data transfer is finished.

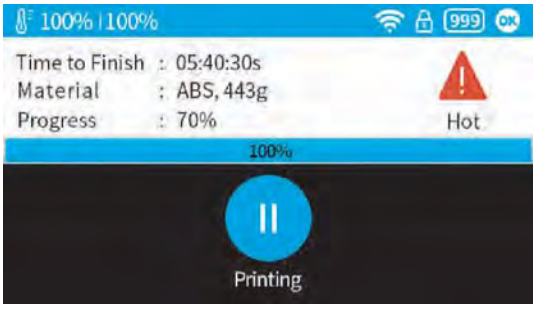
Printing Progress



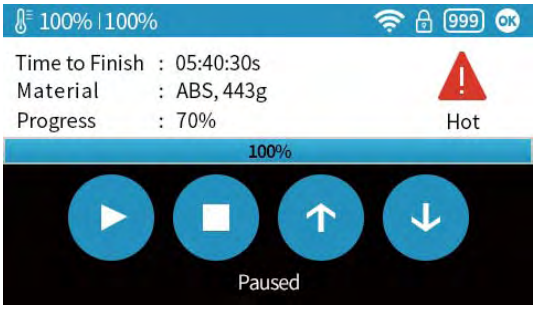
After pressing the pause button, the nozzle will be paused but temperature is maintained at printing temper- ature. During pausing, the following control buttons will appear to allow users to resume, stop or change fila- ment.
Please note the stopping is irreversible, the current print job can only be restarted from begining.



Change Filament During Printing



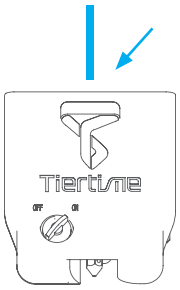
1\ During printing process the “Pause” but- ton, the printing job will be paused.



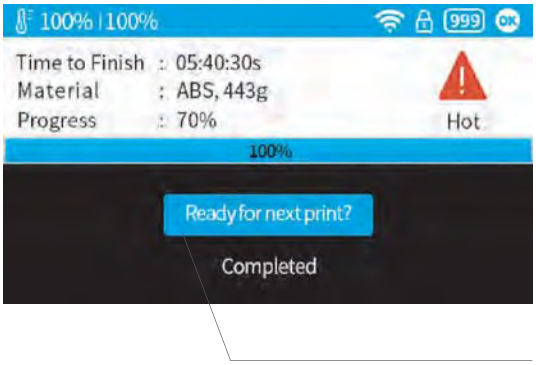
2\ When print head stopped moving and platfrom lowered. Press the “Retract” but- ton to remove filament.

Press the “Extrude button” to load the new filament

Press the “resume” button to resume print- ing.



After filament was removed, insert new filament to the print head as described in page 16.



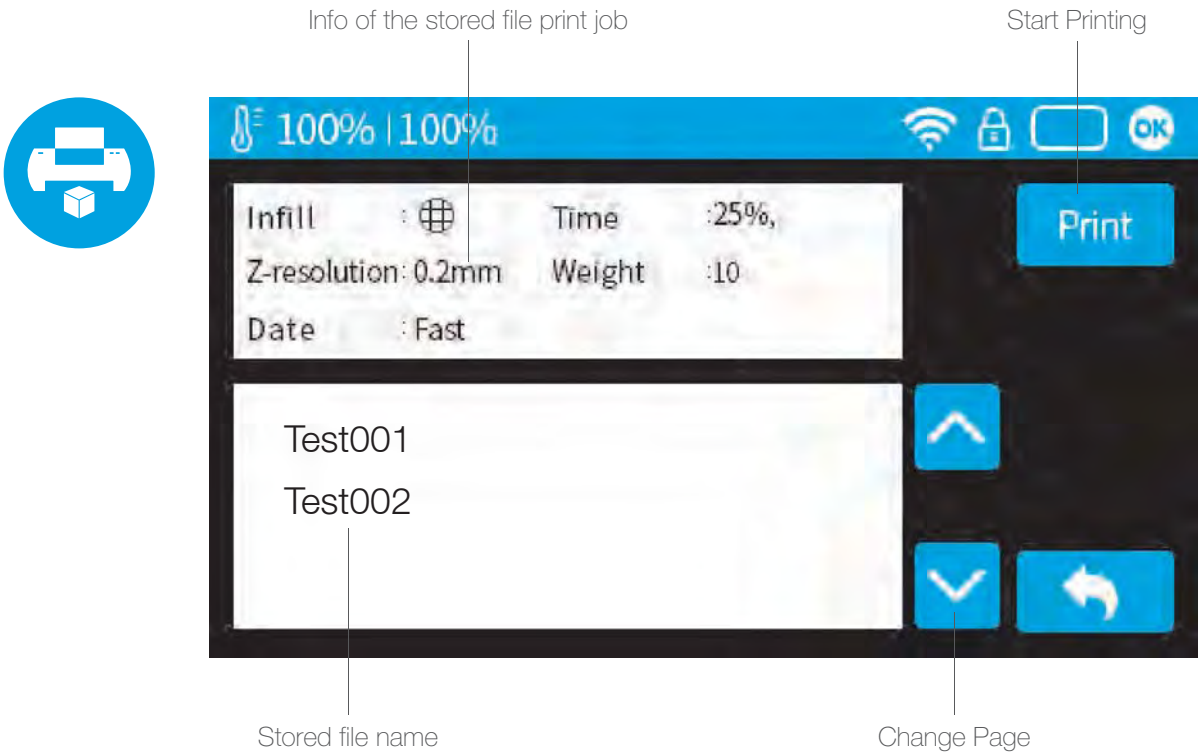
Confirmation button

Print Job Finished

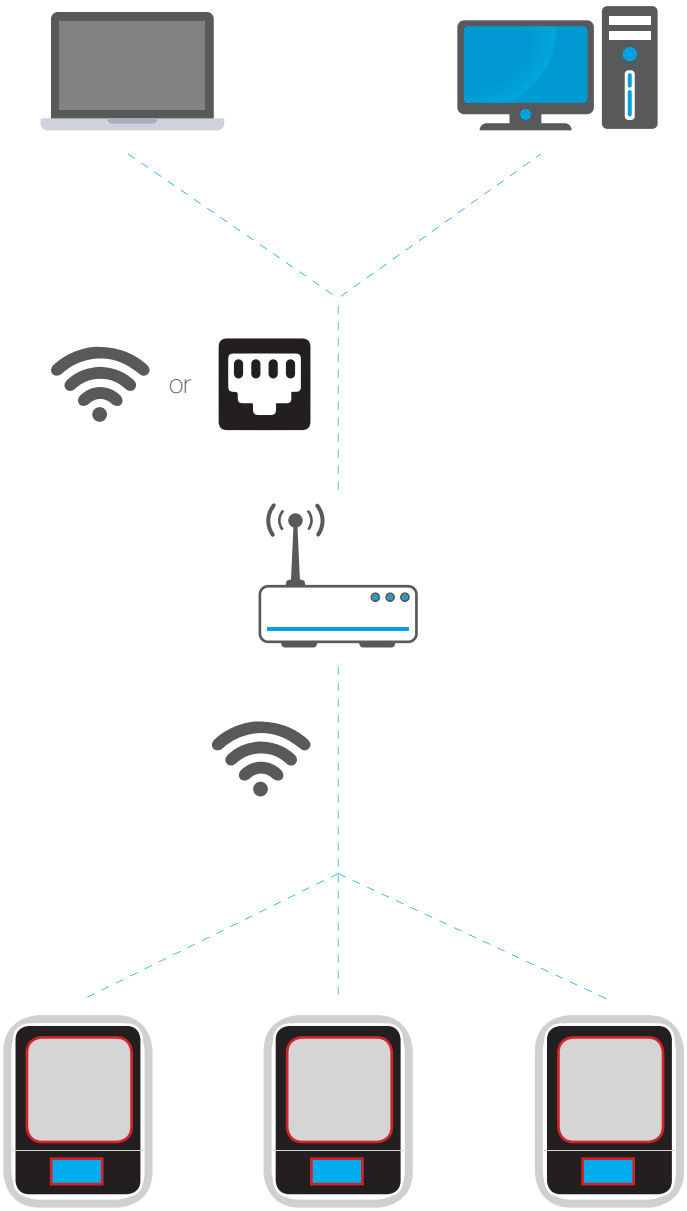
Printer ready confirmation:

After the print job was finished, the user need to press the “Ready for next print?” button to confirm the printer is ready. User should make sure the previous print job is removed from the platform before pressing the button. The printer cannot start a new print job if they did not confirm the status.

Reprint or Printing Stored Print Jobs



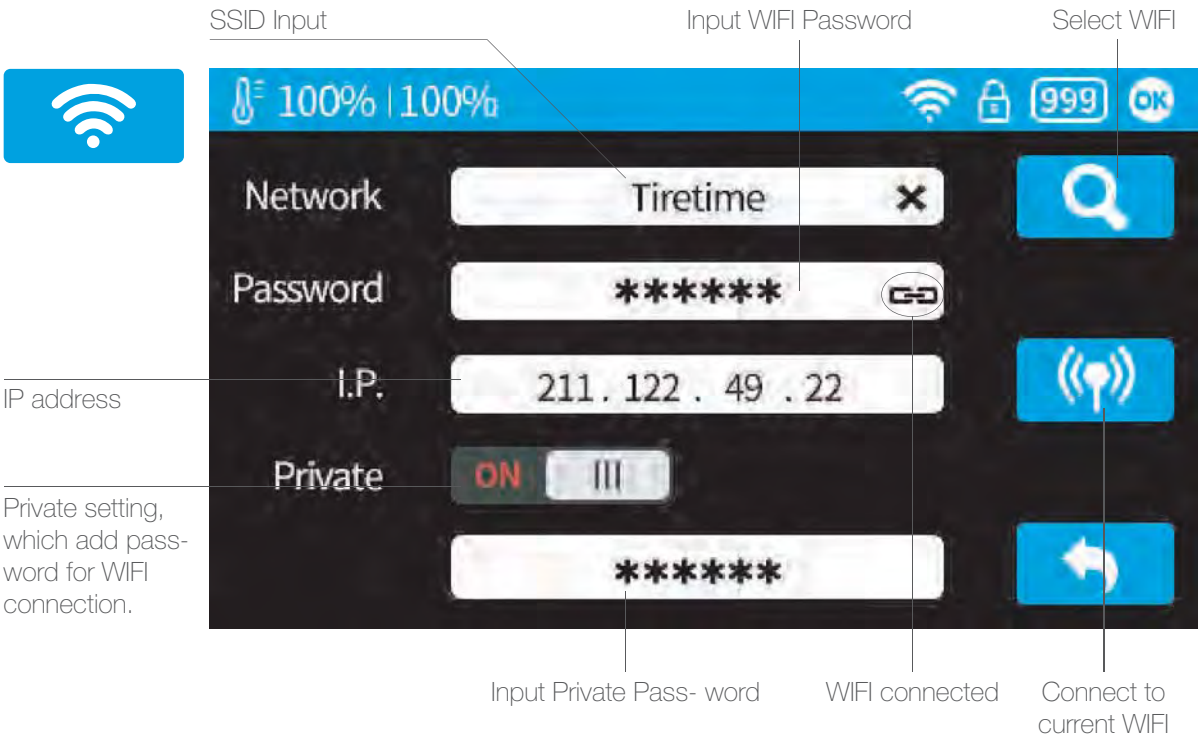
Machine Settings - WIFI Connection



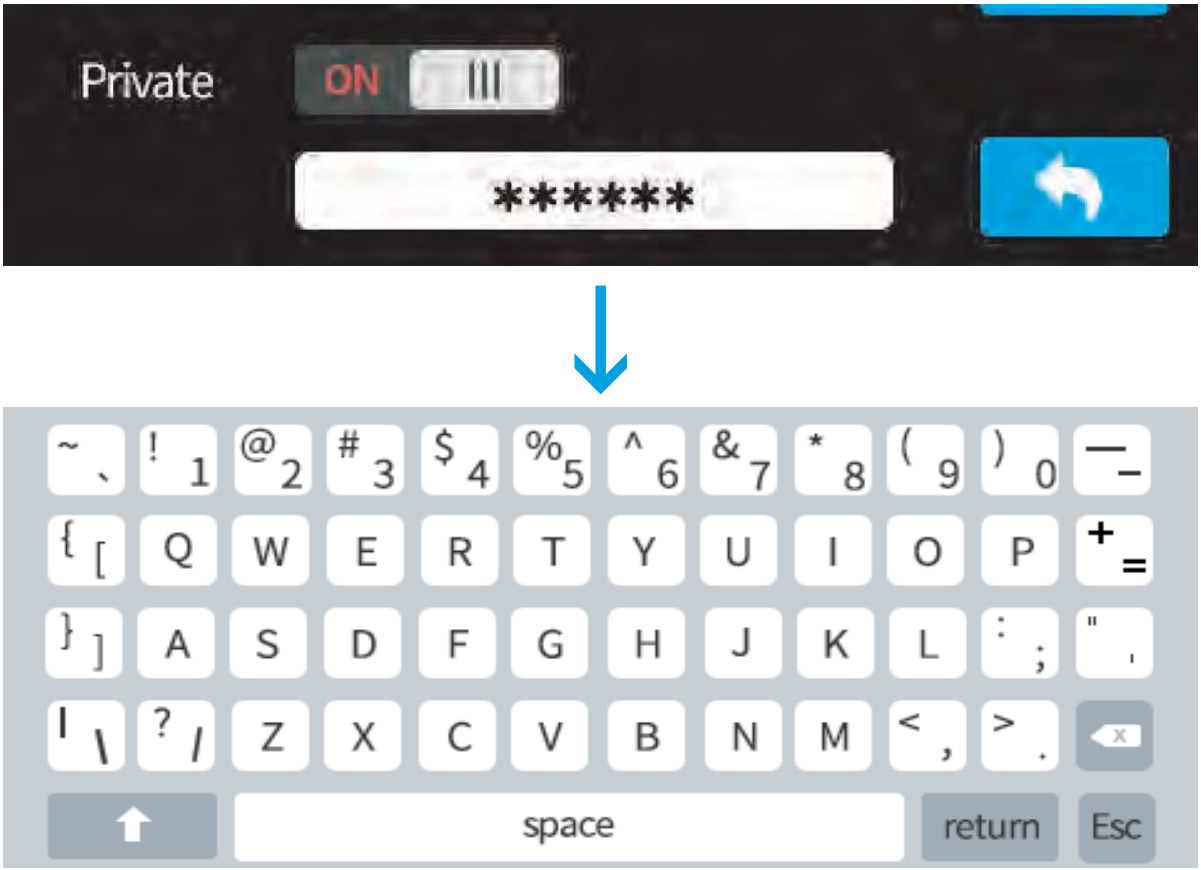
Connecting to the UP mini 2 through WIFI requires a Wireless Local Area Net- work (WLAN). Computer and printers must connect to the same WIFI network (same SSID) before able to communicate.

In order to acheive stable WIFI connection, users are recommended to con- nect under a capacious WIFI environment. A crowded network or an area with a large number different networks are known to cause interruption during data trasnfer.

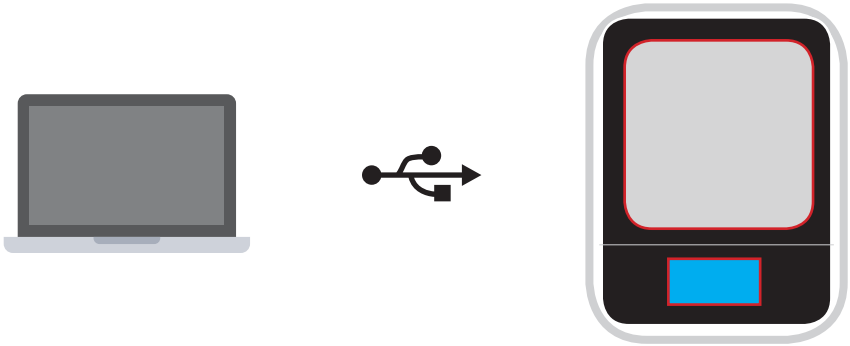
WIFI Setup through Touch Screen.



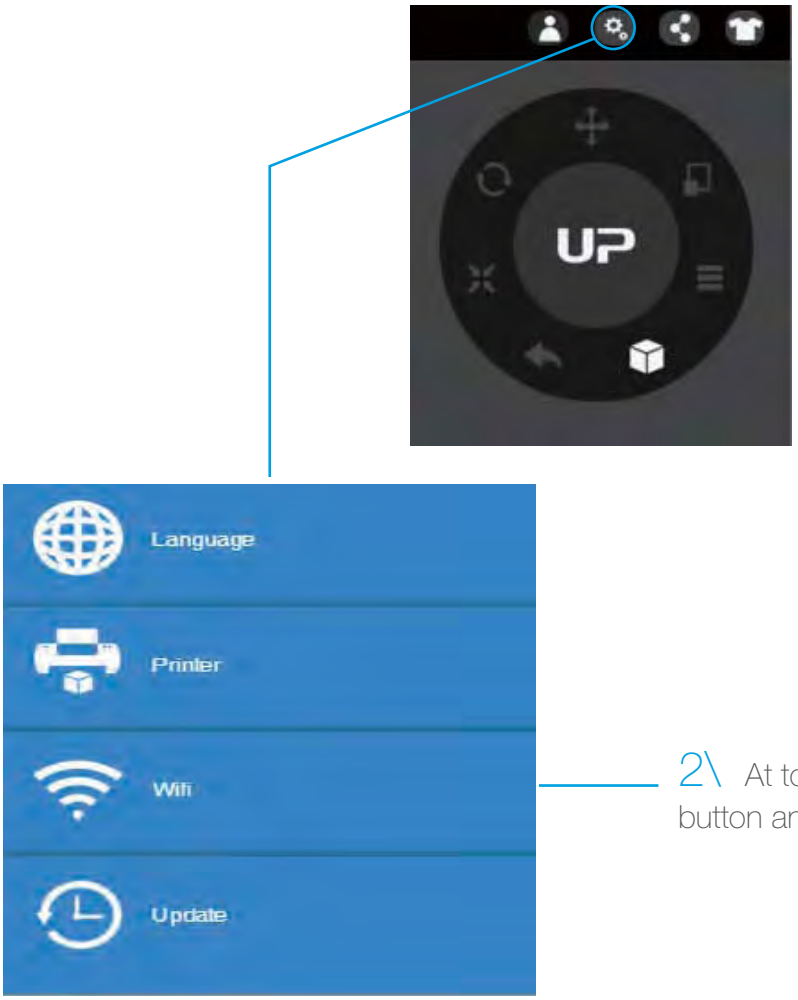
Setup Private WIFI Access



If user switch on the private function in WIFI setting, a password field will appear to allow passowrd setup. This is password that will be re- quired for WIFI connection to the printer to prevent unathorized usage through WIFI. Please note this is a weak protection that anyone who can access to the printer through USB or touch screen could changet the private password.



1\ Connect UP mini to computer through USB.



2\ At top right corner click the setting button and then click WIFI tab.