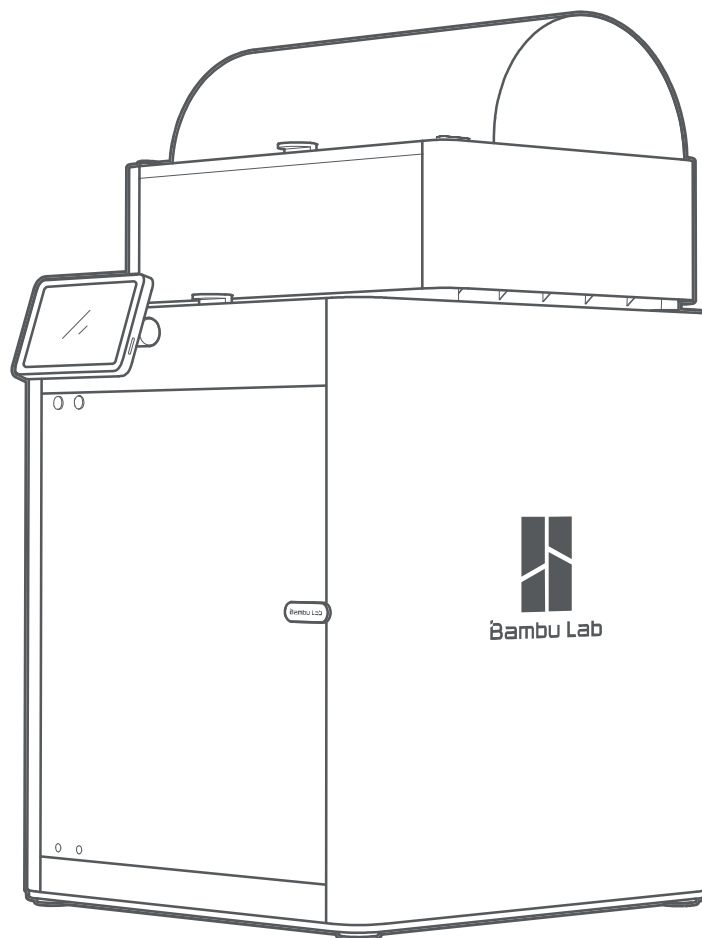


# Bambu Lab X1-Carbon Combo 3D Printer

## Quick Start

Please review the entire guide before operating the printer.

- \* Safety Notice: Do not connect to power until assembly is complete.



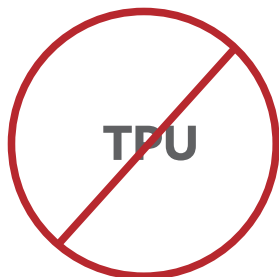


**Bambu Studio & Bambu Handy**  
<https://bambulab.com/download>

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## \*Warning:

- When operating the AMS, we recommend using Bambu Filament, which has been thoroughly tested to work with the AMS.
- **Please make sure to avoid using soft materials like TPU or damp PVA, as they can get stuck in the AMS.**
- AMS supports spool width of 50 mm - 68 mm. We highly recommend using filament with plastic spools that fit correctly inside the AMS. If you prefer to use cardboard spools, we strongly advise using a spool adapter to reduce the risk of slippage and debris getting left behind in the AMS.
- If you run into any issues with specific filaments, please let us know so that we can provide better advice to our community.



# Component Introduction

Tool Head

Touch Screen

Glass Cover Plate

Chamber Camera  
(X1-Carbon Only)

Build Plate

Auxiliary Part Cooling Fan  
(X1-Carbon Only)

Air Filter

Bambu Micro Lidar

Pause

Screen Sleep/Wake

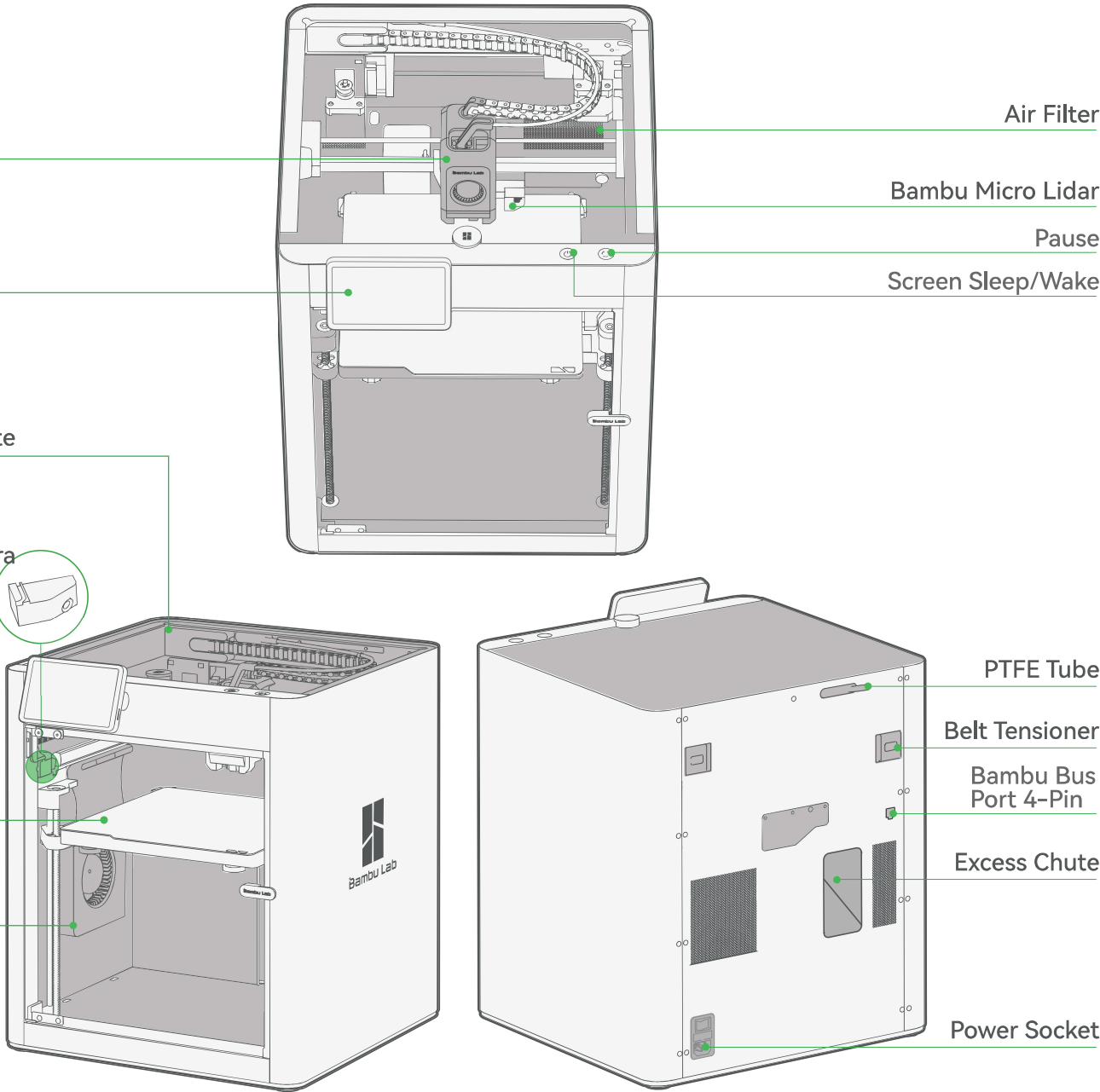
PTFE Tube

Belt Tensioner

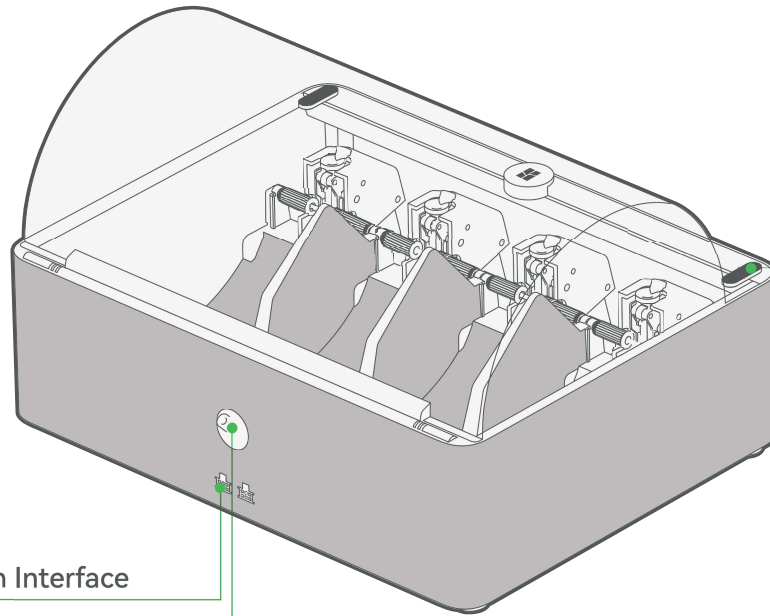
Bambu Bus Port 4-Pin

Excess Chute

Power Socket



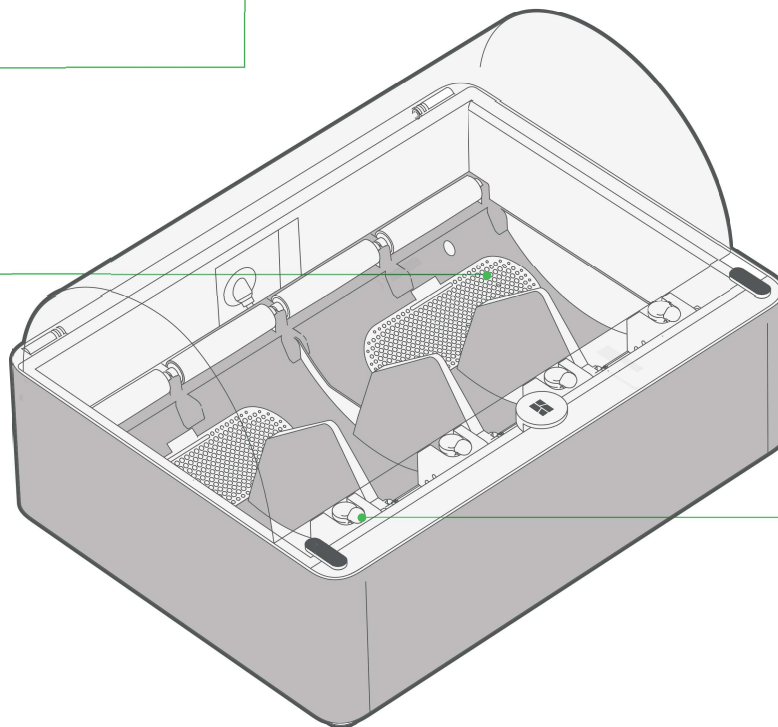




Buckle

Bambu Bus Cable 6-Pin Interface

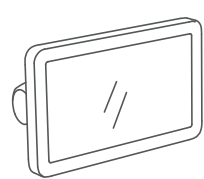
Filament Outlet



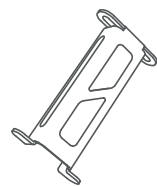
Desiccant

Filament Inlet

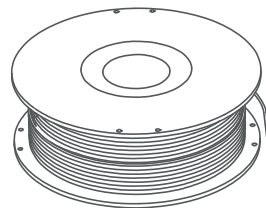
# Accessory Specification



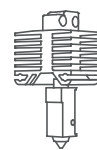
Touch Screen



Spool Holder



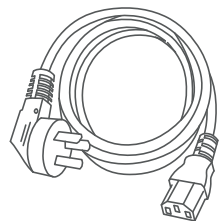
250g Filament (x3)



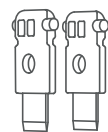
Spare Hot End



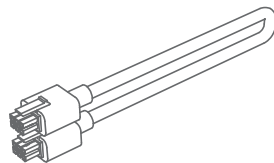
Nozzle Wiping Pad (x2)



Power Cord



Spare Filament Cutter (x2)



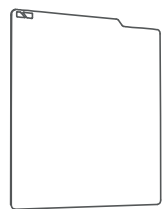
Bambu Bus Cable-6Pin



Allen Key H1.5  
Allen Key H2



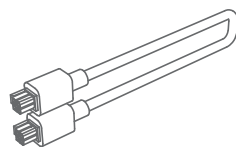
Unclogging Pin Tool



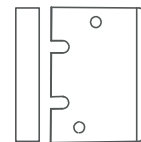
Spare Sheet for Bambu Cool Plate (x2)



Flexible Build Plate (Pre-installed on build plate)



Bambu Bus Cable-4Pin

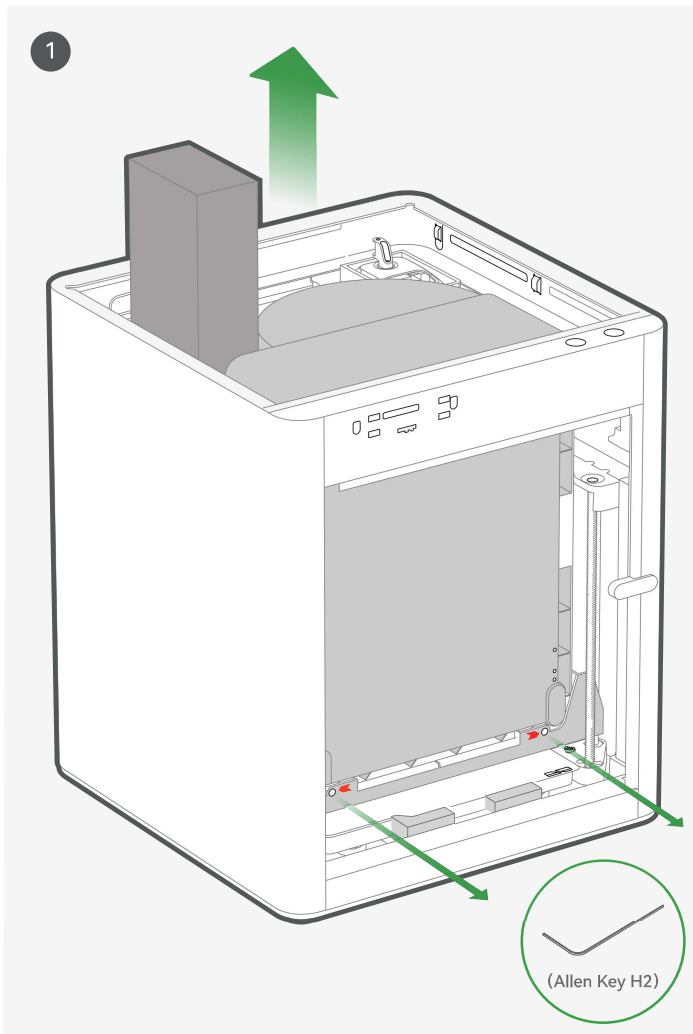


Bambu Scraper

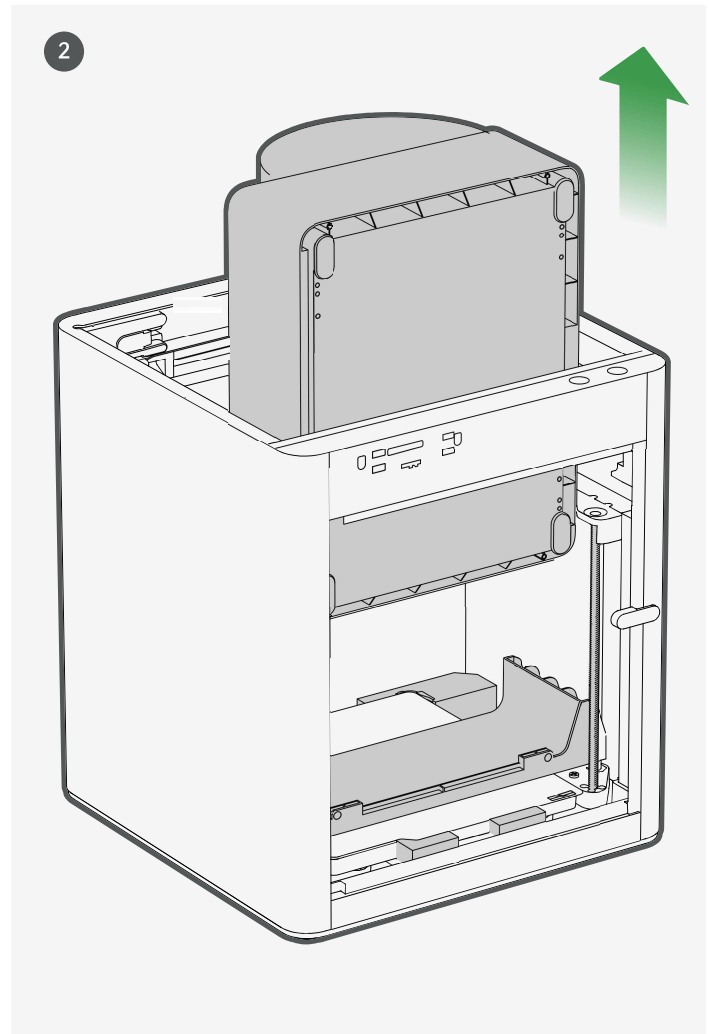


Glue Stick for Build Plate

## AMS & Tool Head Unlock

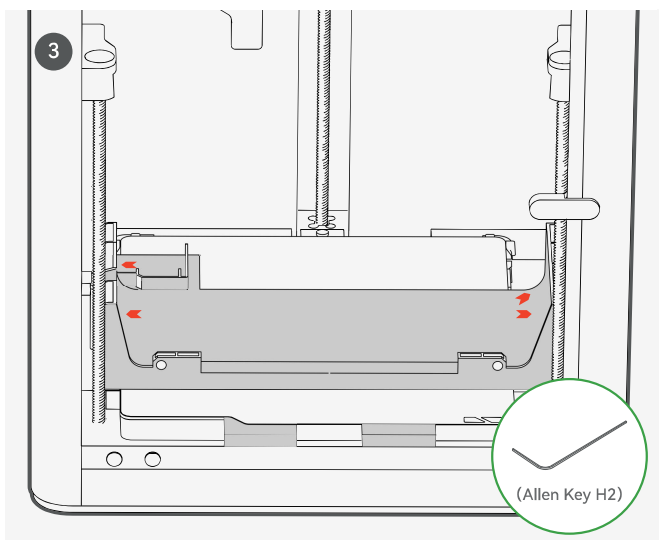


Take out the accessory box. Use Allen Key H2 to remove the screws as pictured.

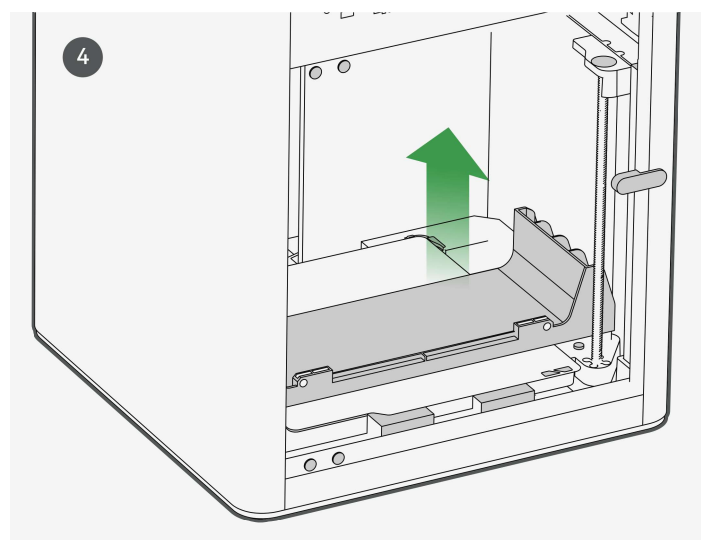


Take out the AMS by sliding it out through the top.

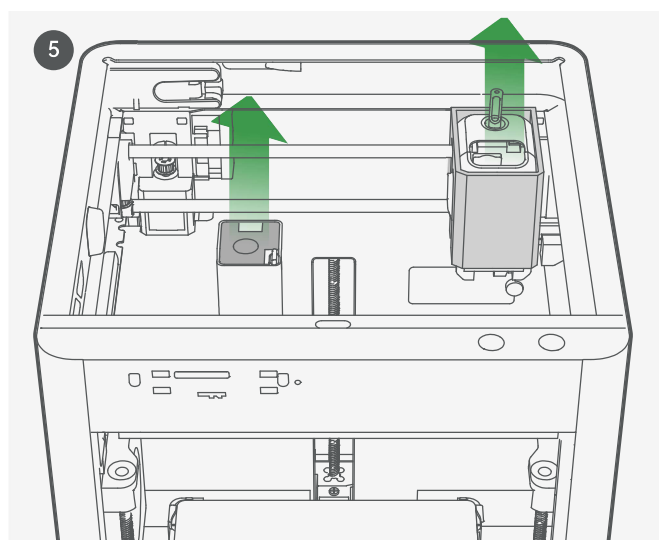
\*We recommend using the short end of the Allen Key to unlock the screws more easily.



Remove the four screws as the arrows indicate.



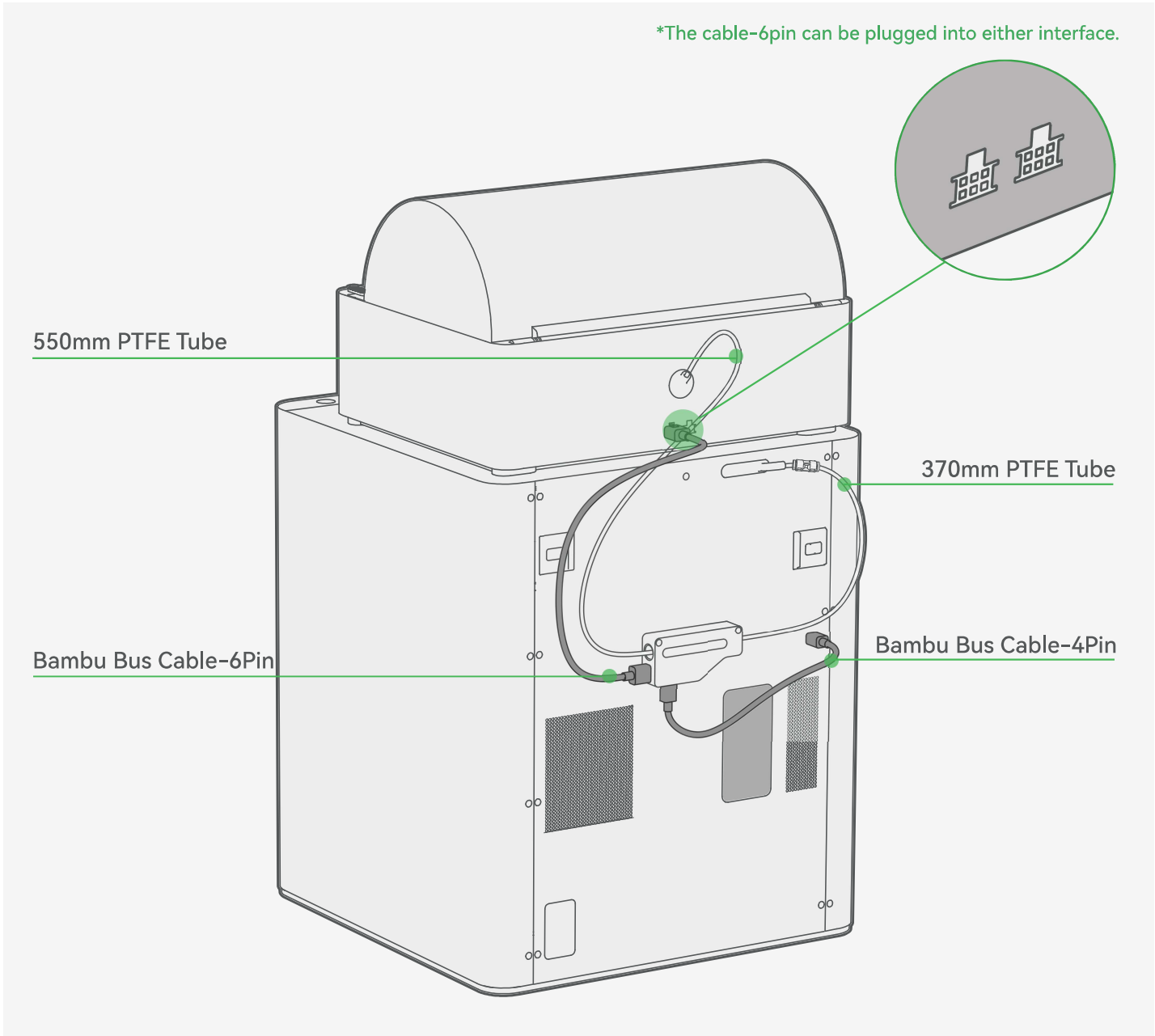
Take out the AMS cushioning.



Remove the cardboard from the tool head.  
Remove the foam from the excess chute.

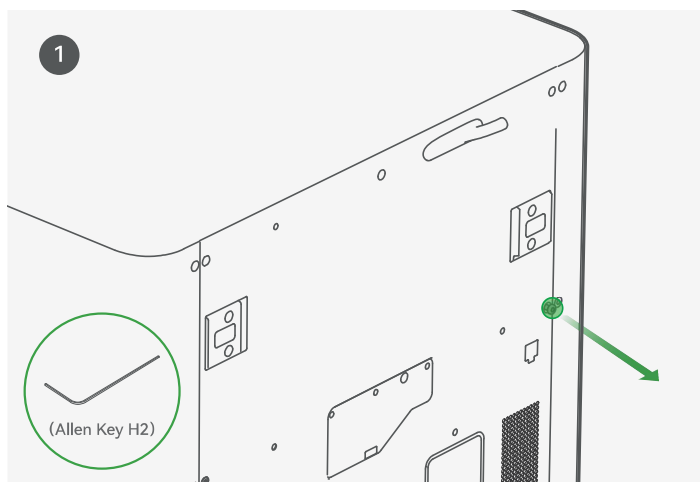
# AMS Assembly

\*The cable-6pin can be plugged into either interface.

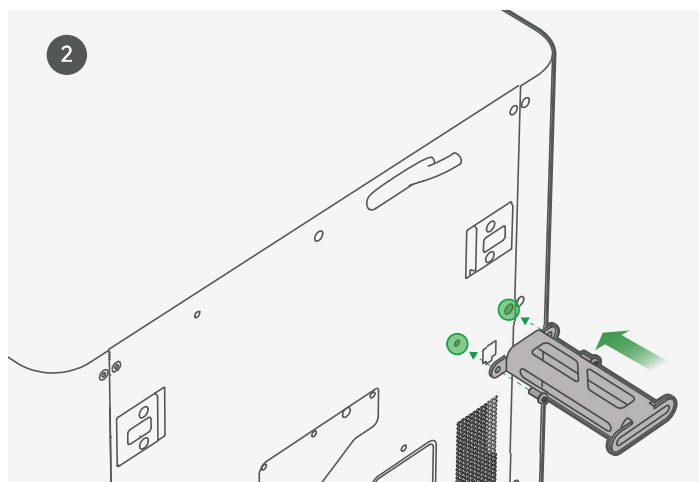


## Spool Holder Assembly

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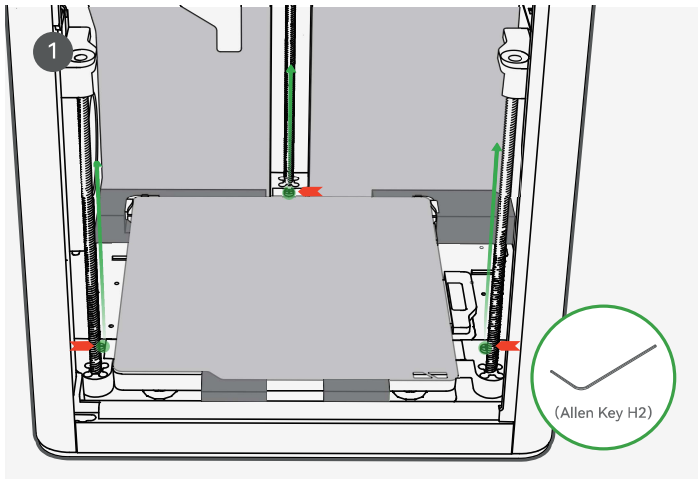


Remove the screw as pictured with an Allen Key H2.

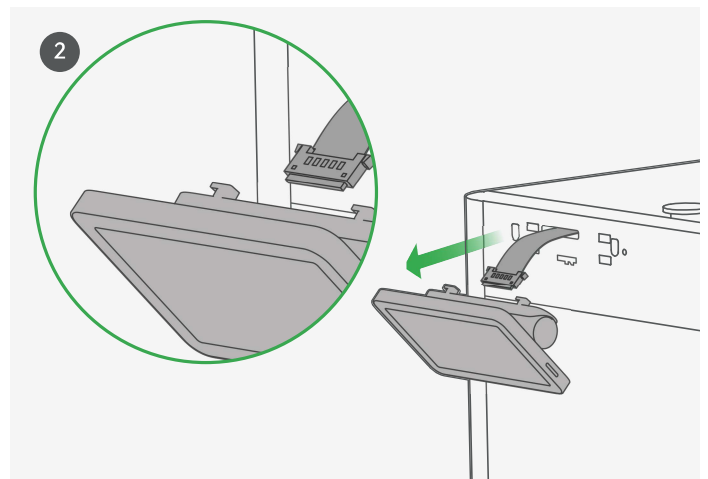


Secure the spool holder with two screws from the accessory box.

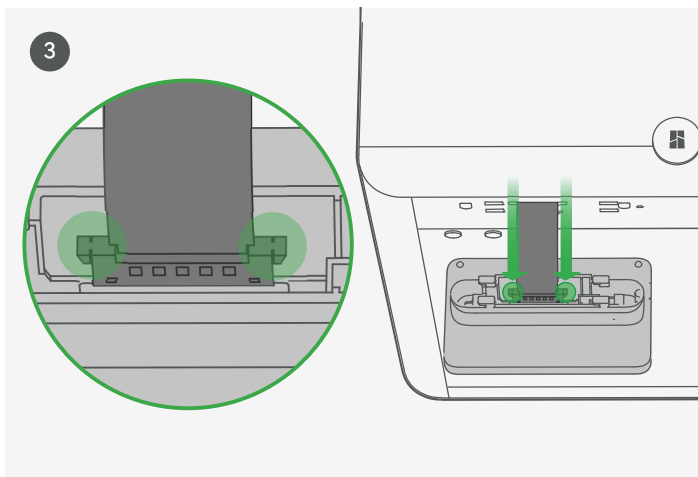
## Hot Bed Unlock & Screen Installation



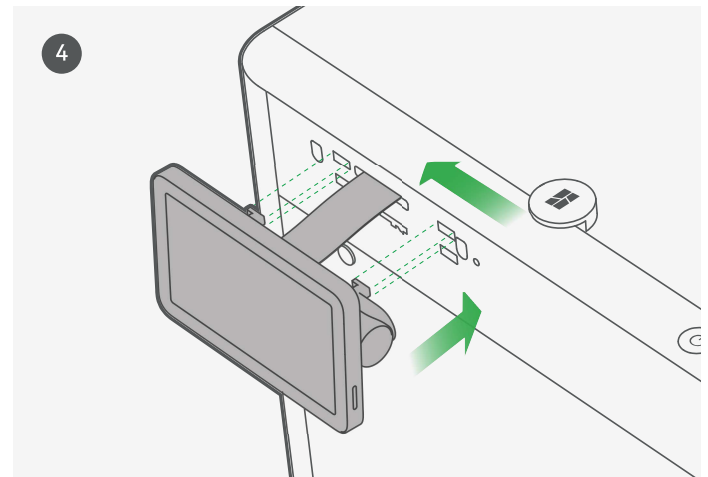
Remove the three screws with an Allen Key H2 to unlock the hot bed.



Pull the Flexible Printed Circuit (FPC) out about 50mm.



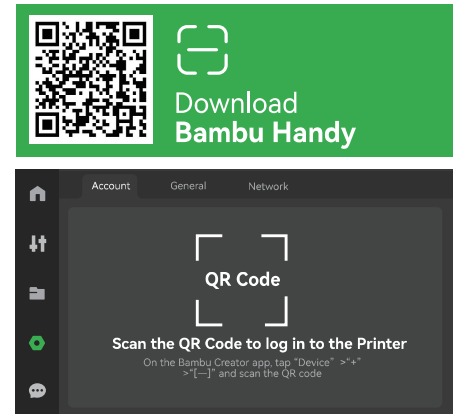
Insert the FPC into the port by pressing the terminal as pictured.



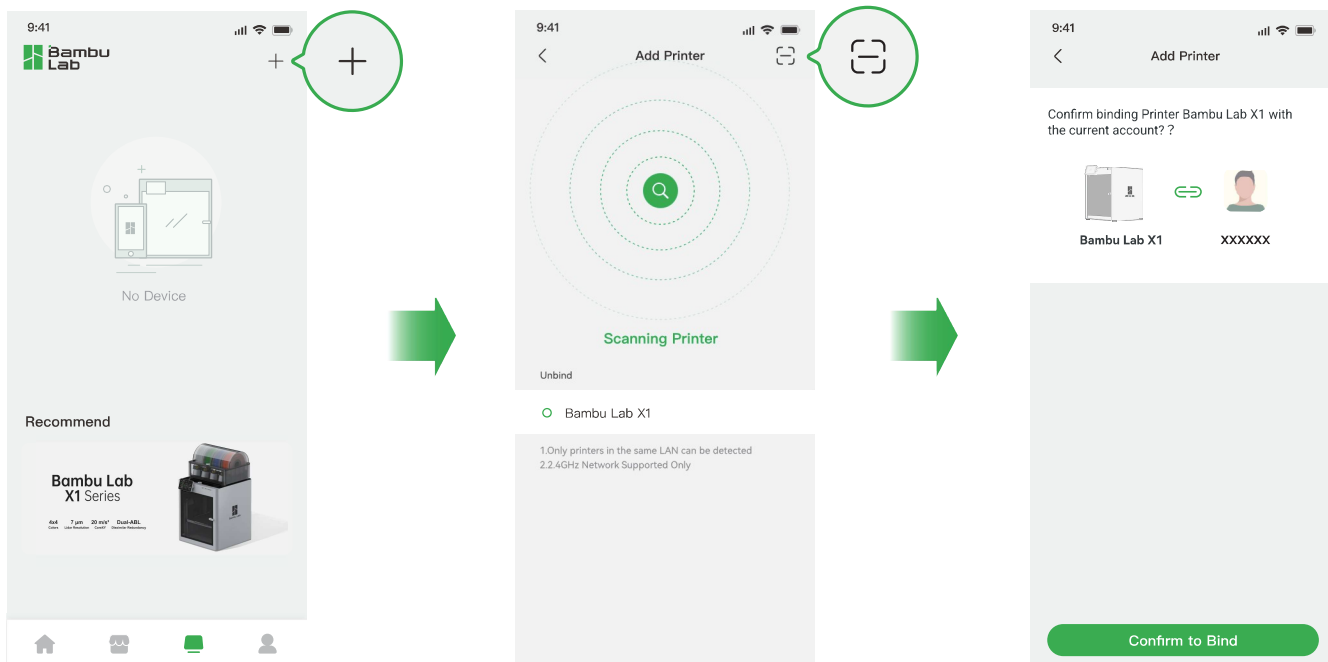
Insert the screen back to the slot on the printer, then lock it by pushing it to the left.

## Printer Binding

1. Download the Bambu Handy App. Register and log in to your Bambu Lab account.
2. Connect the printer to power. Follow the instructions on the screen until getting to the page shown on the right side.



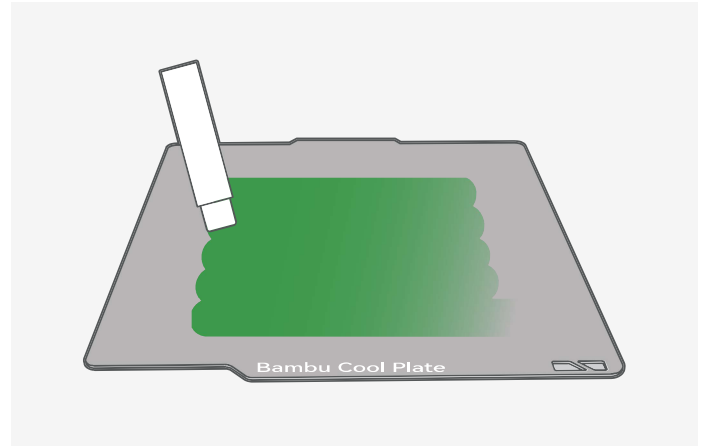
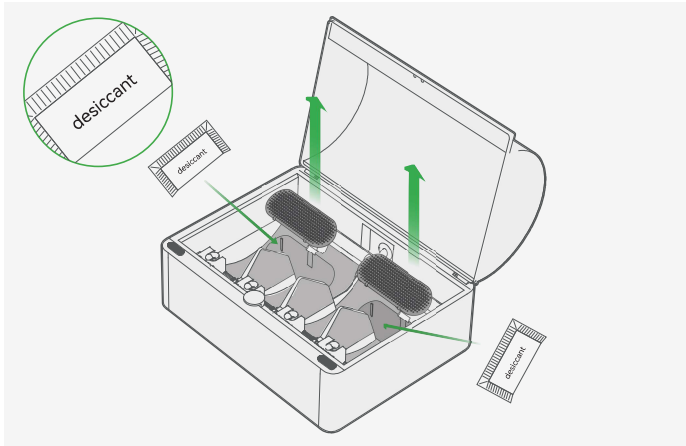
3. Use Bambu Handy to scan the QR code on the screen, and bind your printer with your Bambu Lab account.



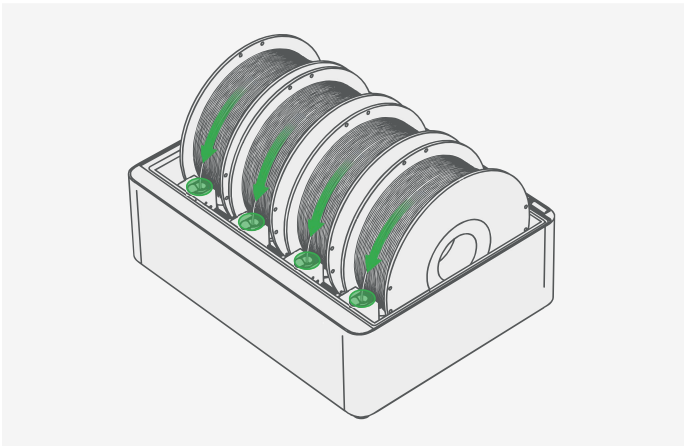
4. Follow the instructions on the screen to complete the initial calibration.  
It is normal to have vibration and noise during the calibration process.  
**DO NOT** remove the protective foam from beneath the hot bed until after the initial calibration is complete.



## First Print

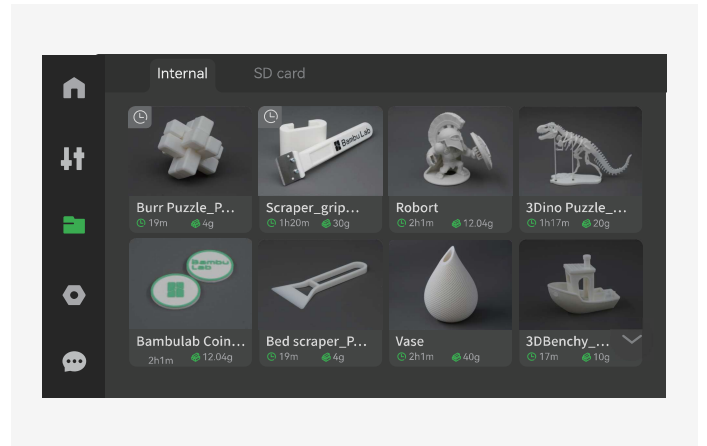


Apply a thin layer of glue on the build plate.



Place at least one spool of Bambu Filament into the AMS. Turn on the power to start the printer and the AMS. Insert the filament into the filament inlet. The filament will be automatically pre-loaded when detected.

\*We recommend first printing a single-color model with the supplied Bambu PLA Basic.

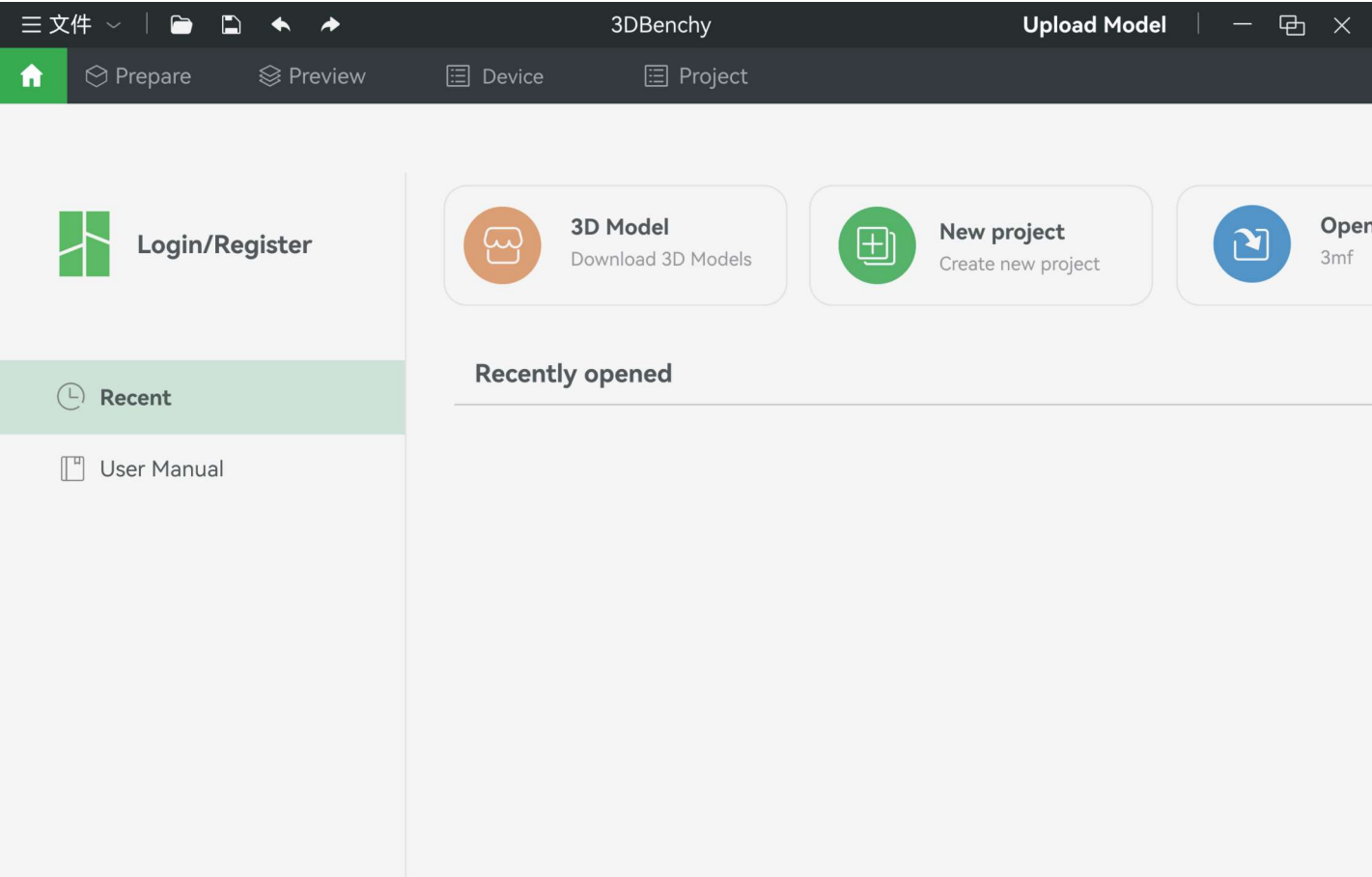


Press " " - "internal". Select a file to start the first print.

\*We recommend using one of the pre-loaded files as a first test print.

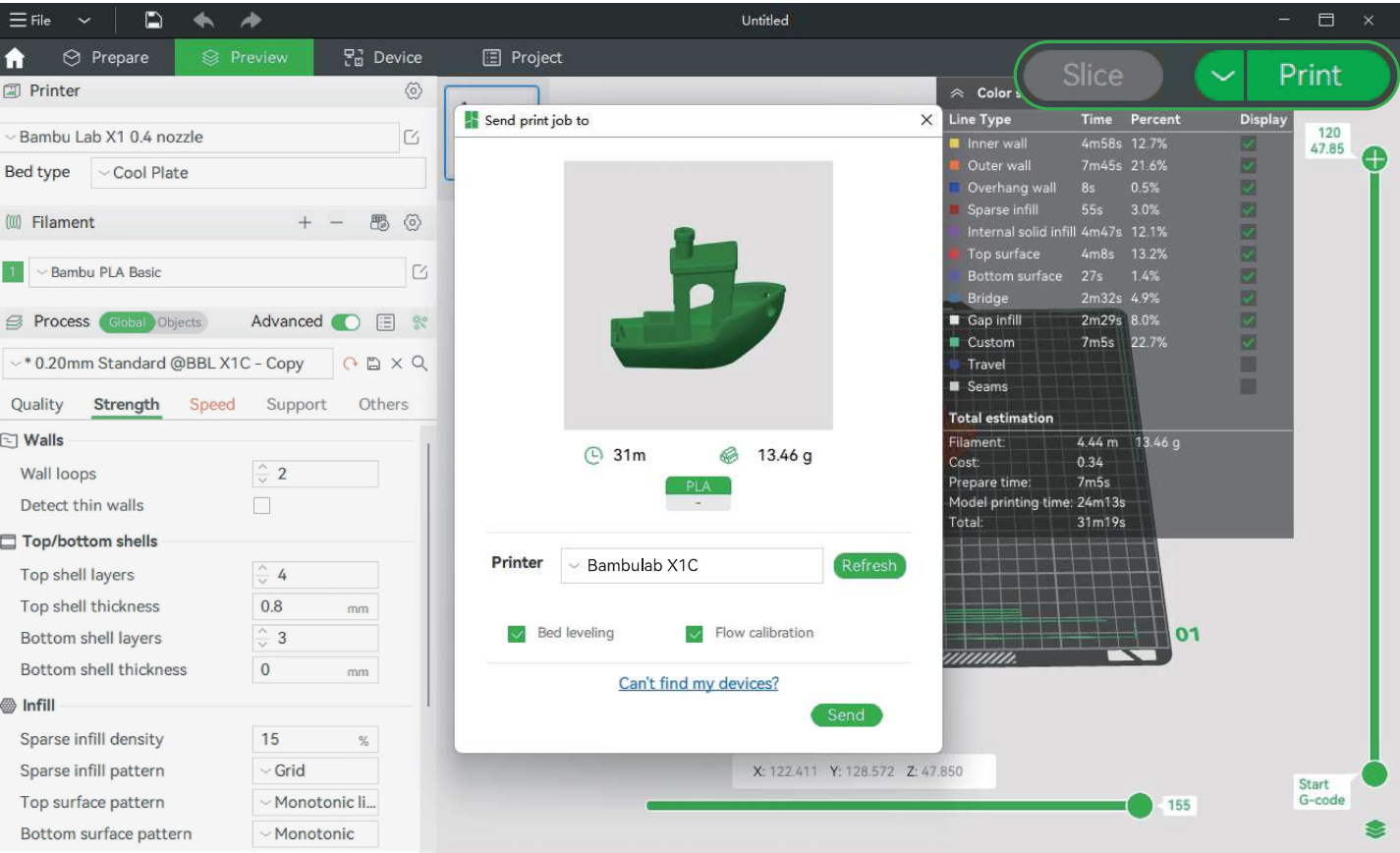
# Bambu Studio

Download Bambu Studio: <http://bambulab.com/download>



Log in to Bambu Studio with your Bambu Lab account, which is the same for the Bambu Online store. Create or open a project.

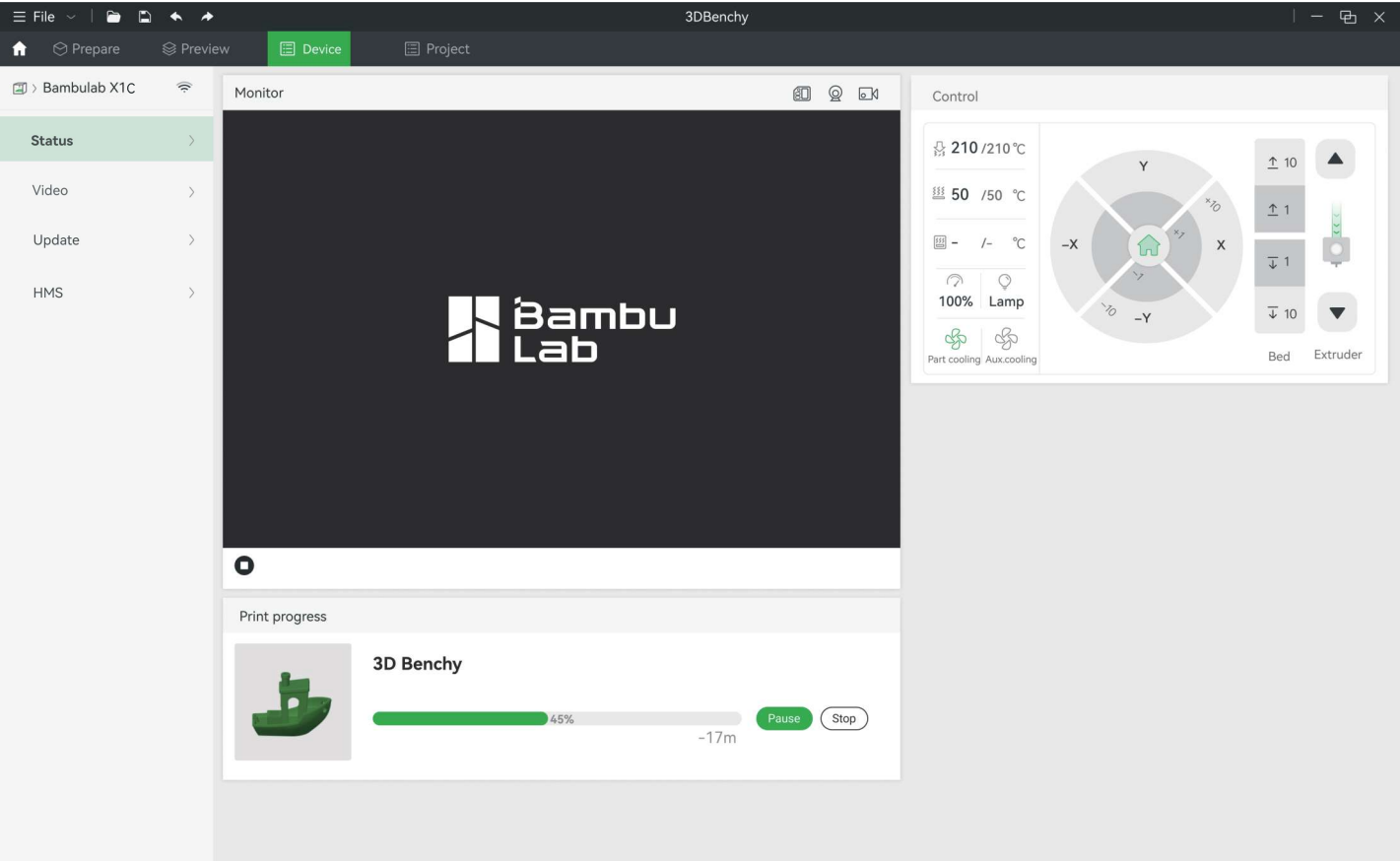
# Bambu Studio



Slice the model, select your printer and send the model to print.

\*We recommend performing bed leveling before each print and performing flow calibration after changing filament.

# Bambu Studio



During printing, you can remotely monitor your print, or pause/stop printing on the "Device" interface.

\*The live view can be seen only if a camera is mounted.

Specification

Item		Specification
		X1-Carbon
Printing Technology		Fused Deposition Modeling
Body	Build Volume(W*D*H)	256*256*256 mm <sup>3</sup>
	Chassis	Steel
	Shell	Aluminum & Glass
Toolhead	Hot End	All-Metal
	Extruder Gears	Hardened Steel
	Nozzle	Hardened Steel
	Max Hot End Temperature	300°C
	Nozzle Diameter (Included)	0.4 mm
	Nozzle Diameter (Optional)	0.2 mm, 0.6 mm, 0.8 mm
	Filament Cutter	Yes
	Filament Diameter	1.75 mm
Heatbed	Build Plate	Flexible Steel Plate
	Build Plate Surface(Included)	Bambu Cool Plate, Bambu Engineering Plate
	Build Plate Surface (Optional)	Bambu High Temperature Plate
	Max Build Plate Temperature	110°C@220V, 120°C@110V
Speed	Max Speed of Toolhead	500 mm/s
	Max Acceleration of Toolhead	20 m/s <sup>2</sup>
	Max Hot End Flow	32 mm <sup>3</sup> /s @ABS
Cooling	Part Cooling Fan	Closed Loop Control
	Hot End Fan	Closed Loop Control
	Control Board Fan	Closed Loop Control
	Chamber Temperature Regulator Fan	Closed Loop Control
	Auxiliary Part Cooling Fan	Closed Loop Control
	Air Filter	Activated Carbon Filter
Supported Filament	PLA, PETG, TPU,ABS,ASA,PVA,PET	Ideal
	PA, PC	Ideal
	Carbon/Glass Fiber Reinforced Polymer	Ideal
Sensors	Bambu Micro Lidar	Yes
	Chamber Monitoring Camera	1920*1080 Included
	Door Sensor	Yes
	Filament Run Out Sensor	Yes
	Filament Odometry	Optional with AMS
	Power Loss Recover	Yes

Physical Dimensions	Dimensions		389*389*457mm <sup>3</sup>
	Net Weight		14.13kg
Electrical Requirements	Voltage		100-240 VAC, 50/60 Hz
	Max Power		1000W@220V, 350W@110V
Electronics	Display		5-inch 1280*720 Touch Screen
	Connectivity		Wi-Fi, Bambu Bus
	Storage		4GB EMMC and Micro SD Card Reader
	Control Interface		Touch Screen, APP, PC Application
	Motion Controller		Dual-Core Cortex M4
	Application Processor		Quad ARM A7 1.2 GHz
	Neural-Network Processing Unit		2 Tops
Software	Slicer		Bambu Studio Support third party slicers which export standard G-code such as Superslicer, Prusaslicer and Cura, but certain advanced features may not be supported.
	Slicer Supported OS		MacOS, Windows
Wifi	Frequency Range		2400MHz-2483.5MHz
	Transmitter Power (EIRP)		≤ 21.5dBm(FCC) ≤ 20 dBm (CE/SRRC)
	Protocol		802.11b/g/n
Laser (Either)	Laser (CLASS 1)	Wavelength	850nm、850nm
		Maximun Output of Laser Radiation	<0.778mW
	Laser (CLASS 2)	Wavelength	405nm、808nm
		Maximun Output of Laser Radiation	<1mW



**Bambu Studio**  
**Bambu Handy**

<https://bambulab.com/download>

## Customer Support

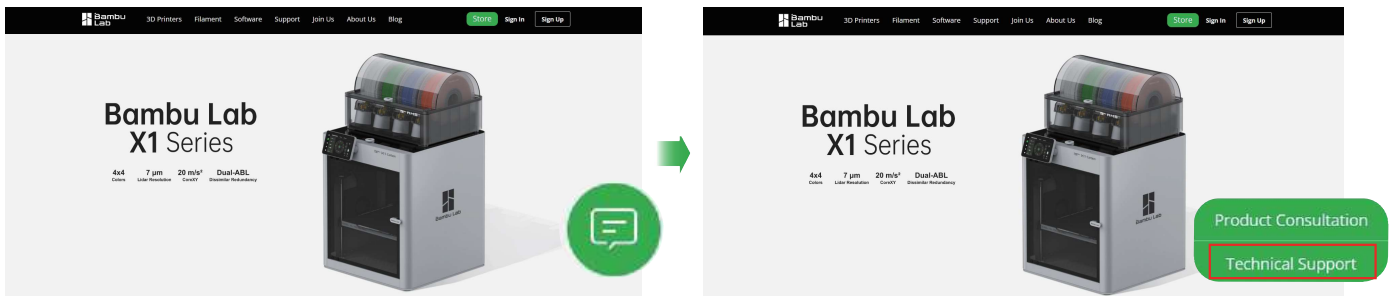
Please visit the Bambu Lab Wiki for more setup and maintenance tutorials.

<https://wiki.bambulab.com/en/home>

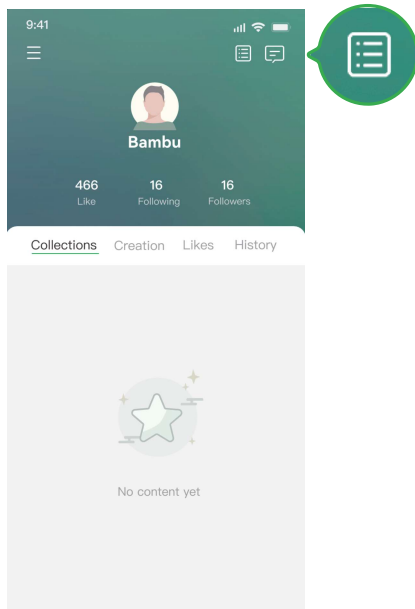


If you need support, please try either of the two approaches:

### Approach 1: Create a support ticket on the Official Website



### Approach 2: Create a support ticket on the Bambu Handy App





**Bambu Lab**

**Enjoy!**

[www.bambulab.com](http://www.bambulab.com)