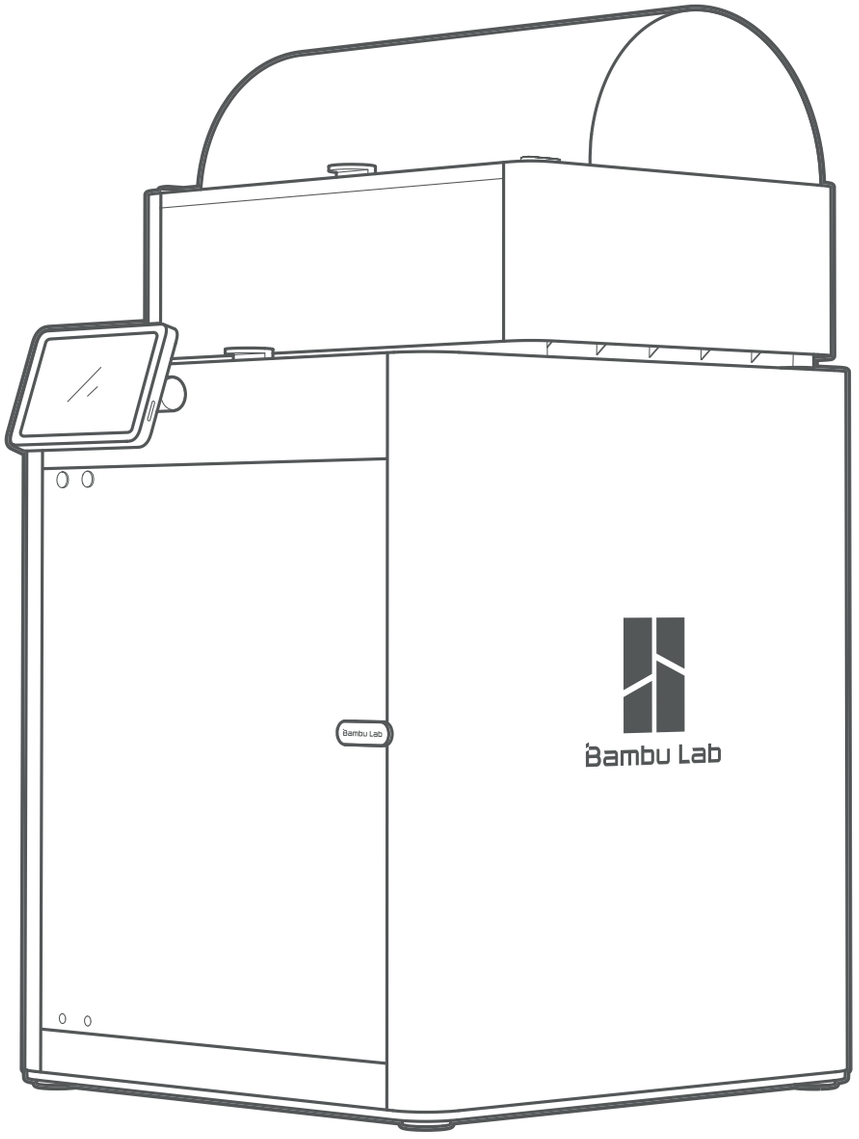
Bambu Lab X1 Combo & X1-Carbon Combo 3D Printer

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

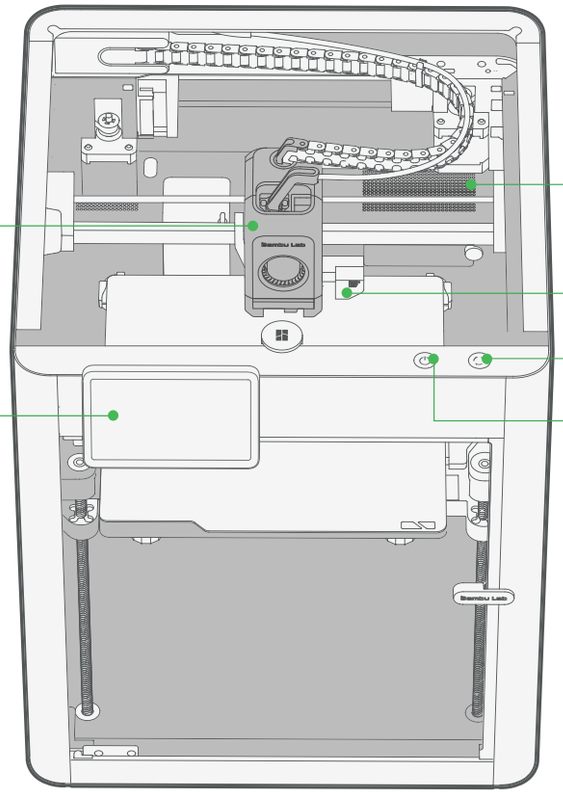
https://bambulab.com/download

*Warning:

The AMS supports spools with a width of 50-68mm.

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, and please avoid using cardboard spools as the spool may slip. 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

Air Filter

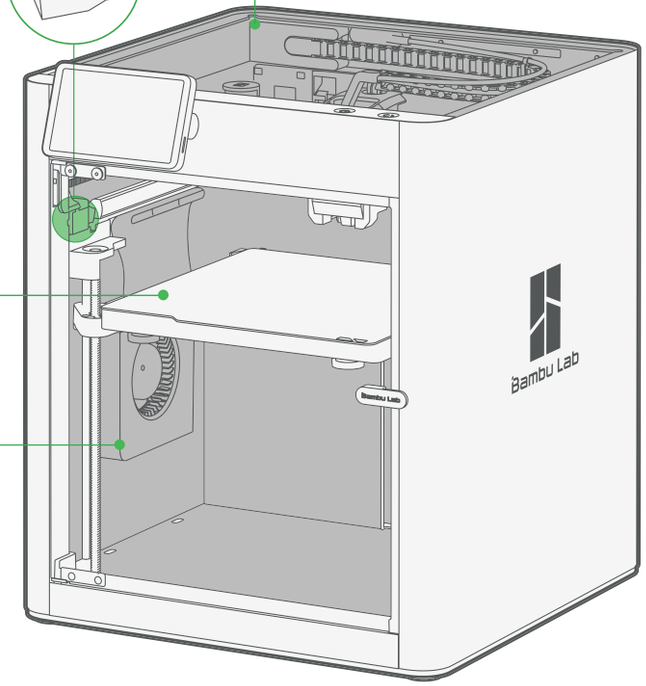
Bambu Micro Lidar

Pause

Screen Sleep/Wake

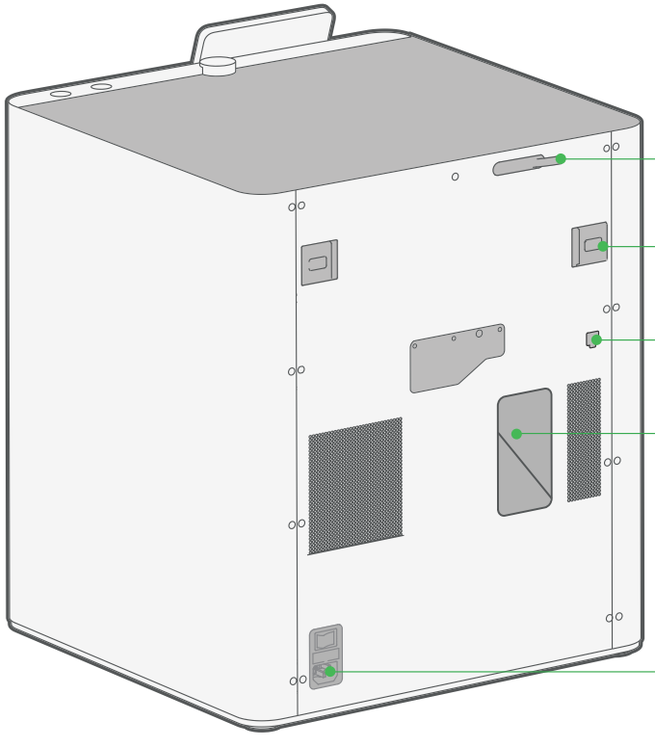
Glass Cover Plate

Chamber Camera
(X1-Carbon Only)



Build Plate

Auxiliary Part
Cooling Fan
(X1-Carbon Only)



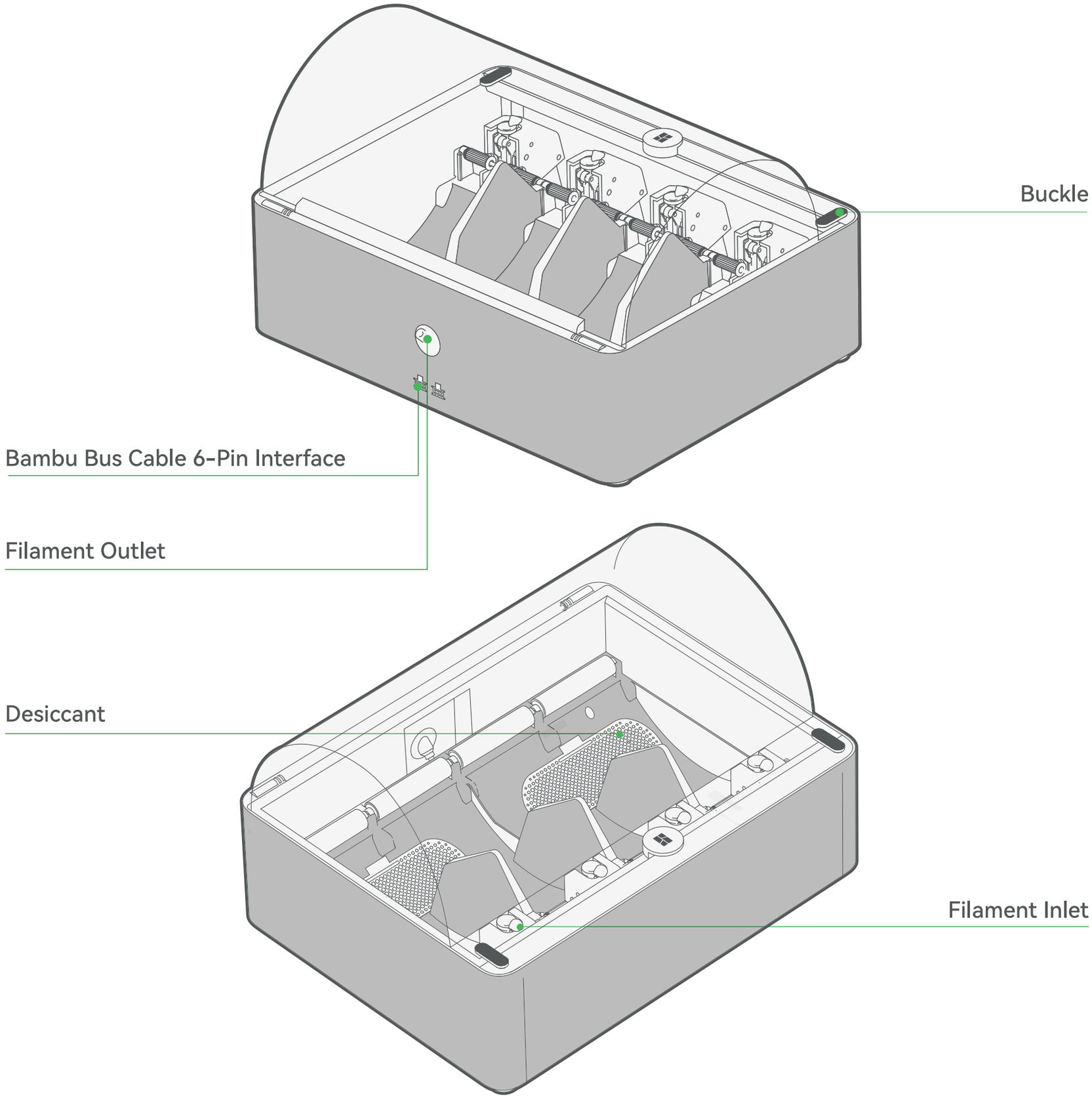
PTFE Tube

Belt Tensioner

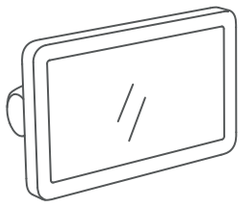
Bambu Bus
Port 4-Pin

Excess Chute

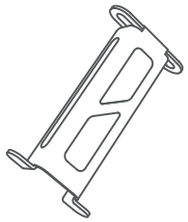
Power Socket


Buckle
Bambu Bus Cable 6-Pin Interface
Filament Outlet
Desiccant
Filament Inlet

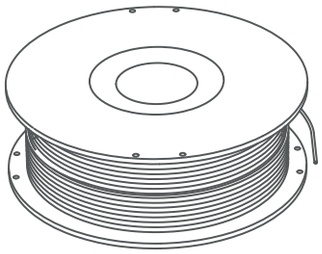
Accessory Specification



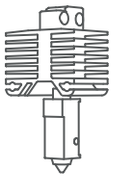
Touch Screen



Spool Holder

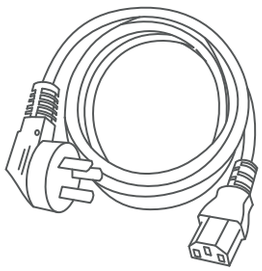


Filament Sample

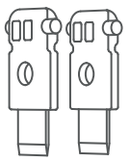


Spare Hot End

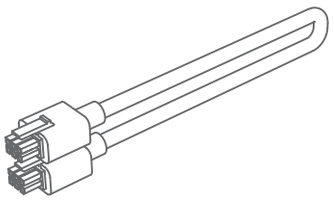
Nozzle Wiping Pad (x2)



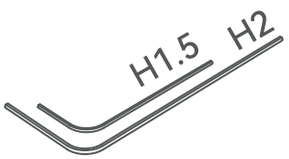
Power Cord



Spare Filament Cutter (x2)

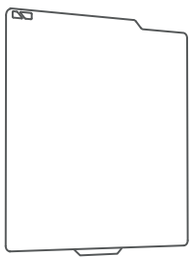


Bambu Bus Cable-6Pin

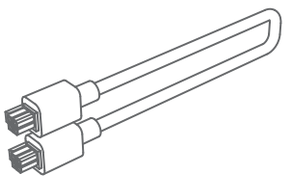


Allen Key H1.5
Allen Key H2

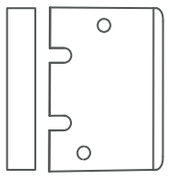
Unclogging Pin Tool



Flexible Build Plate
(Pre-installed on build plate)

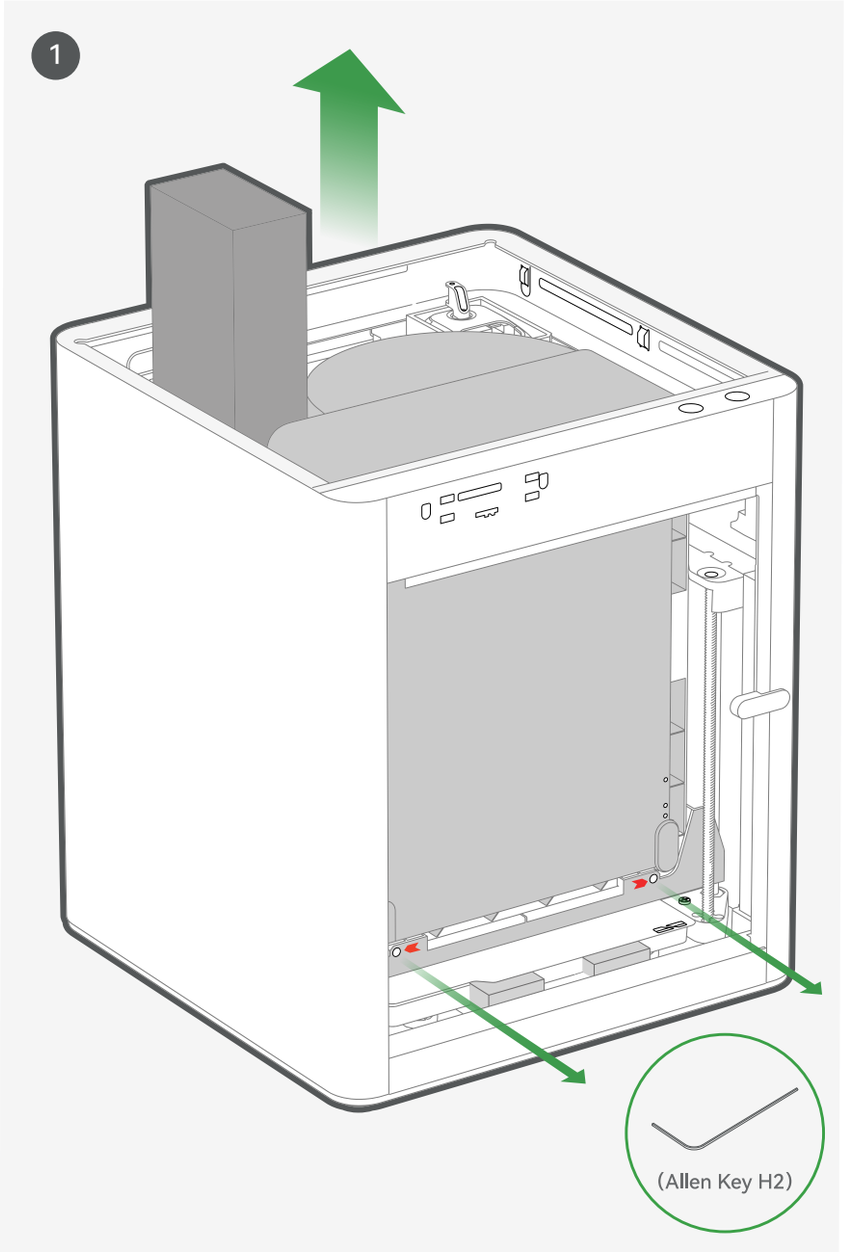


Bambu Bus Cable-4Pin

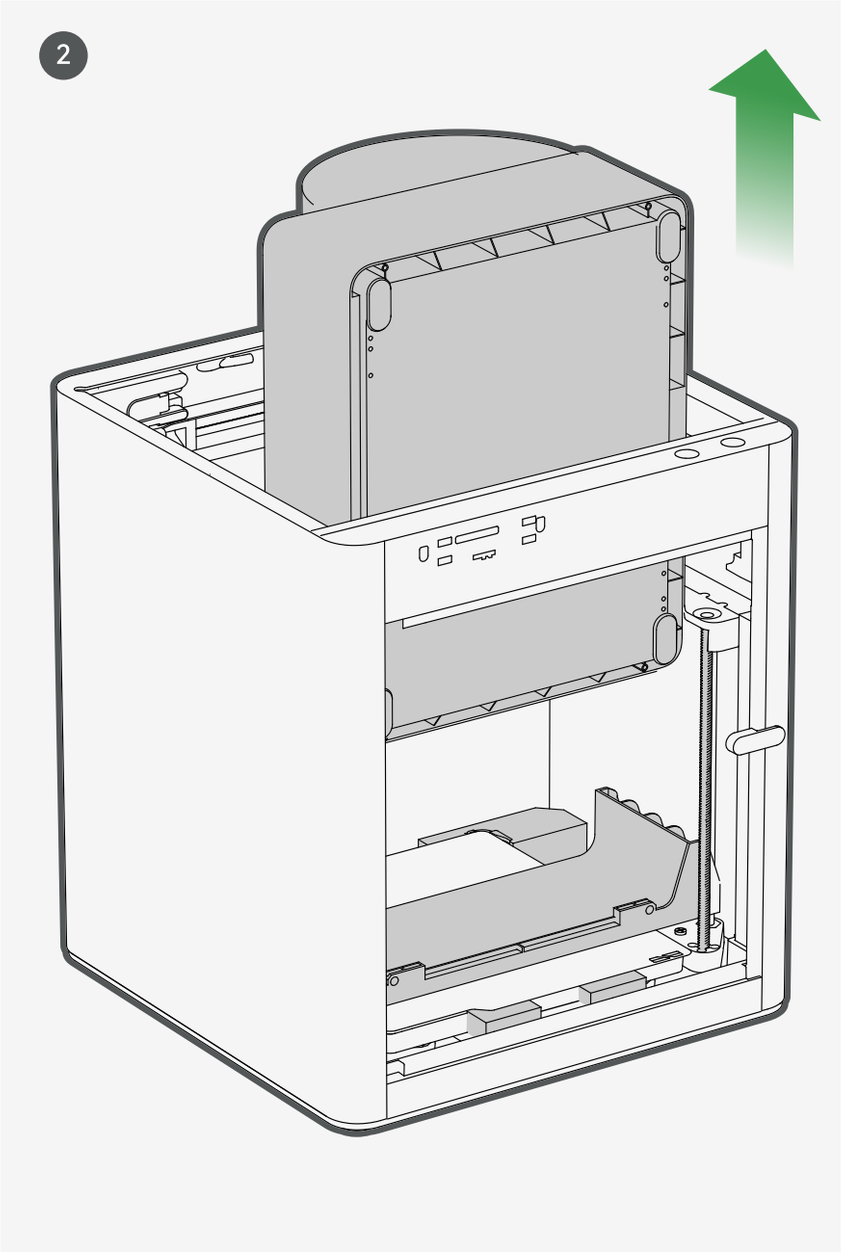


Bambu Scraper

AMS & Tool Head Unlock

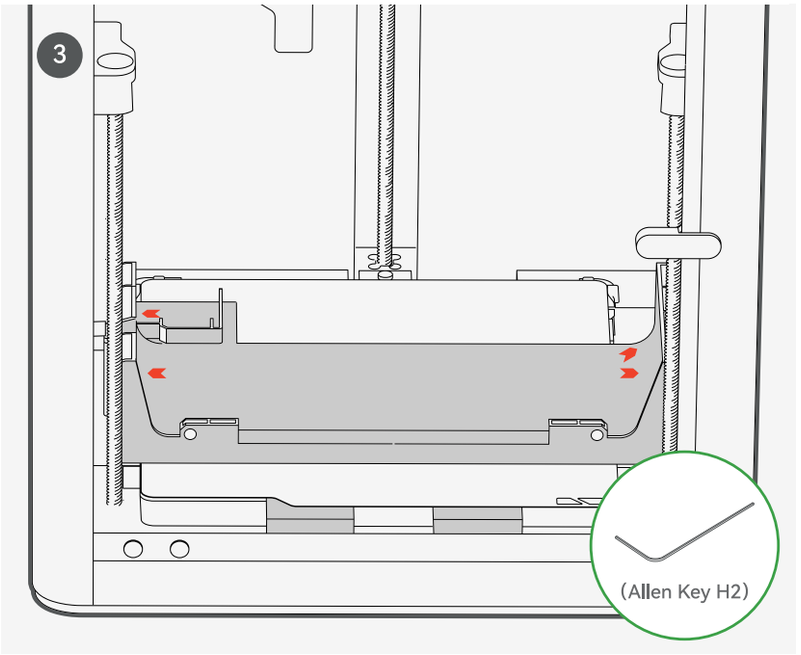


Take out the accessory box. Use Allen Key H2 to remove the screws as pictured.

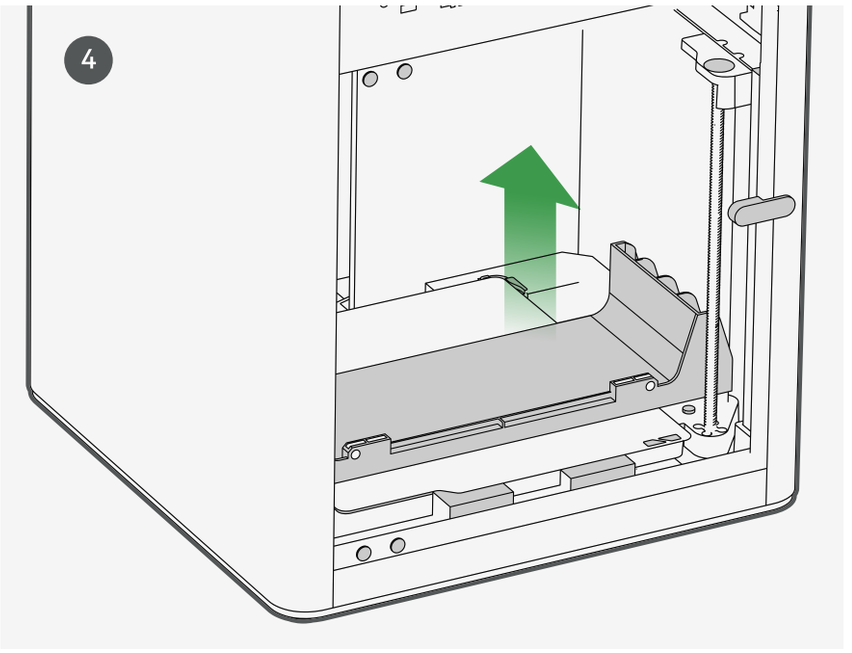


Take out the AMS by sliding it out through the top.

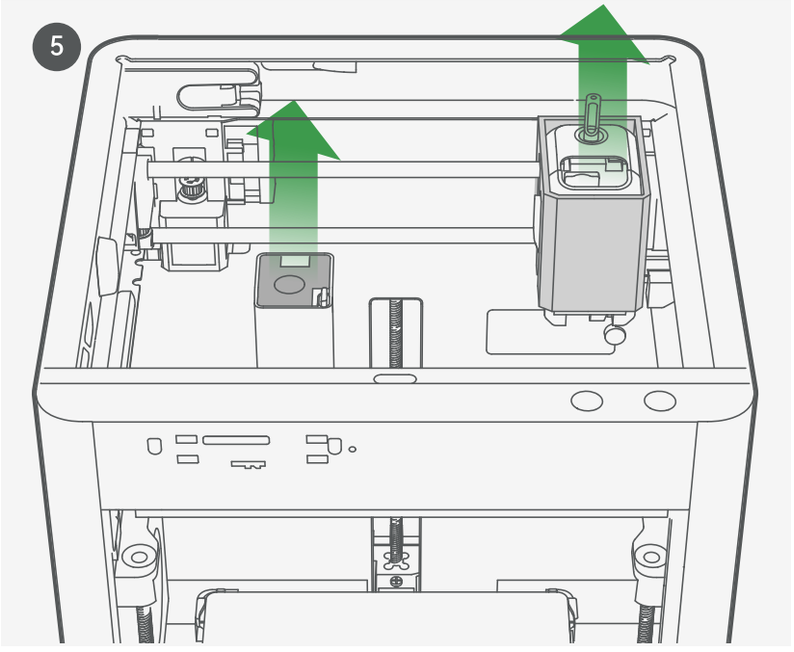
*We recommend using the short end of the Allen Key to unlock the screws more easily.



Remove the four screws as the arrows indicate.

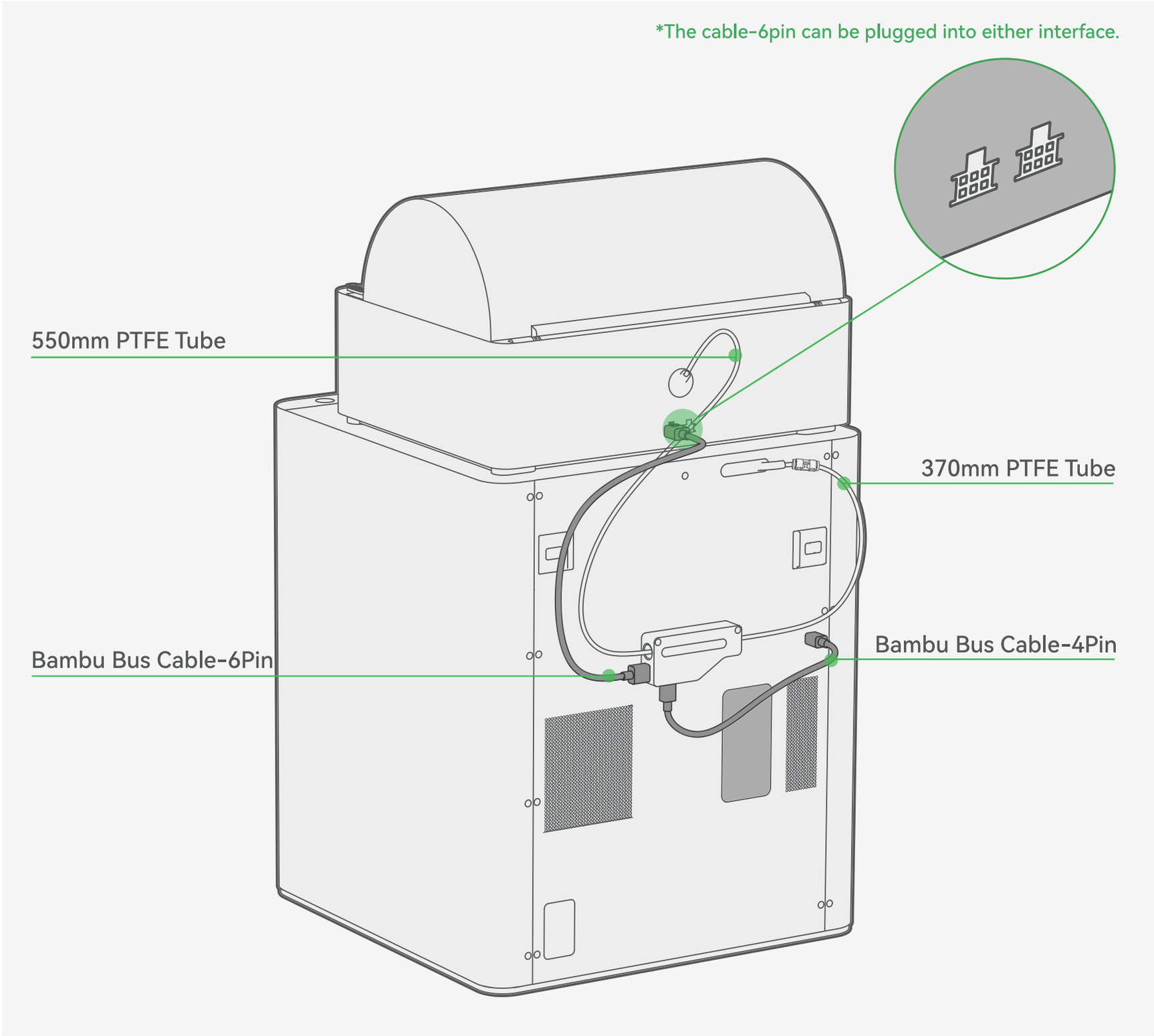


Take out the AMS cushioning.

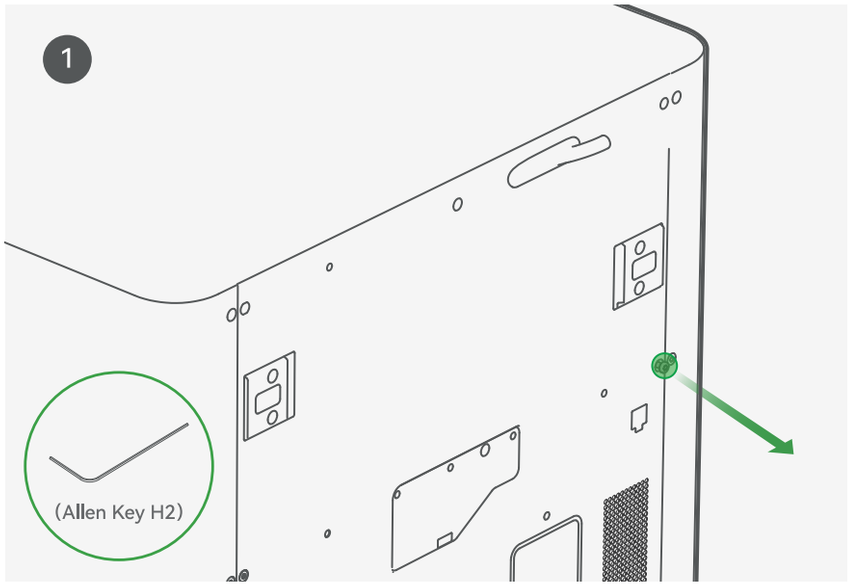


Remove the carboard from the tool head.
Romove the foam from the excess chute.

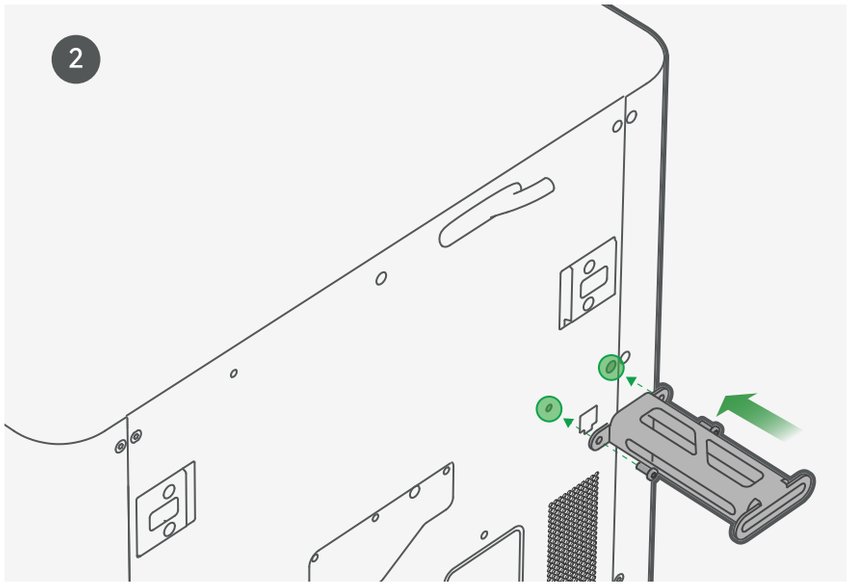
AMS Assembly



Spool Holder Assembly

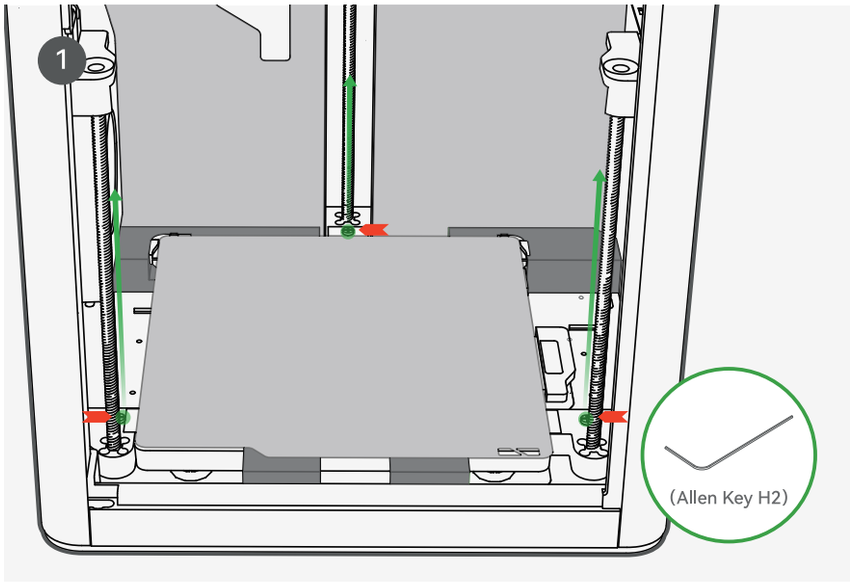


Remove the screw as pictured with an Allen Key H2.

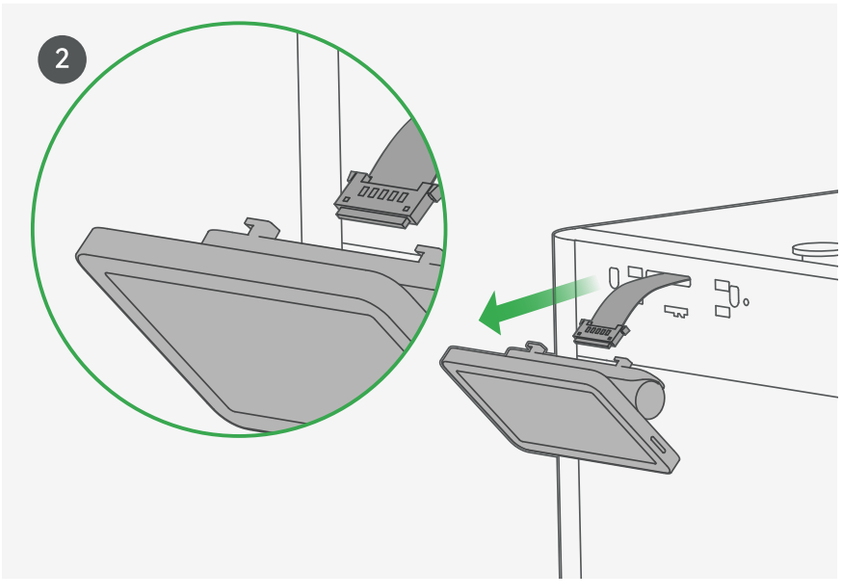


Secure the spool holder with two screws from the accessory box.

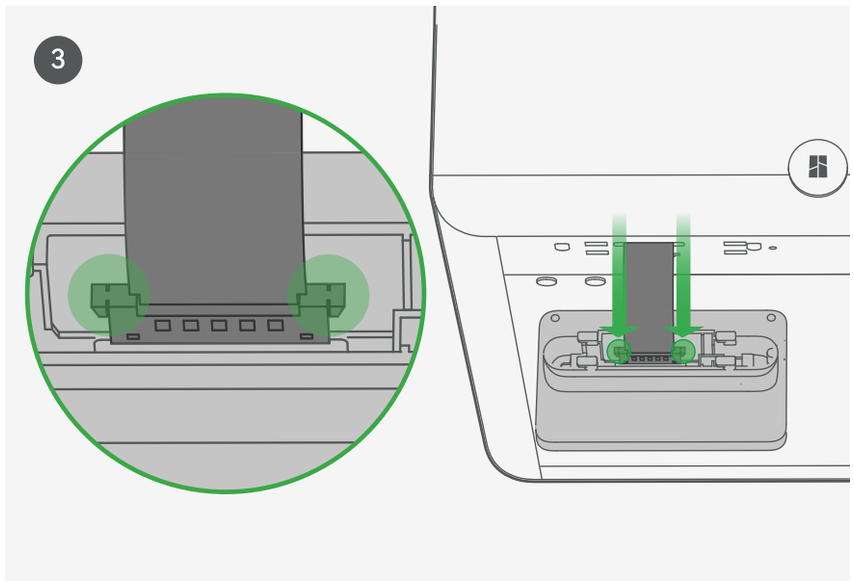
Hot Bed Unlock & Screen Installation



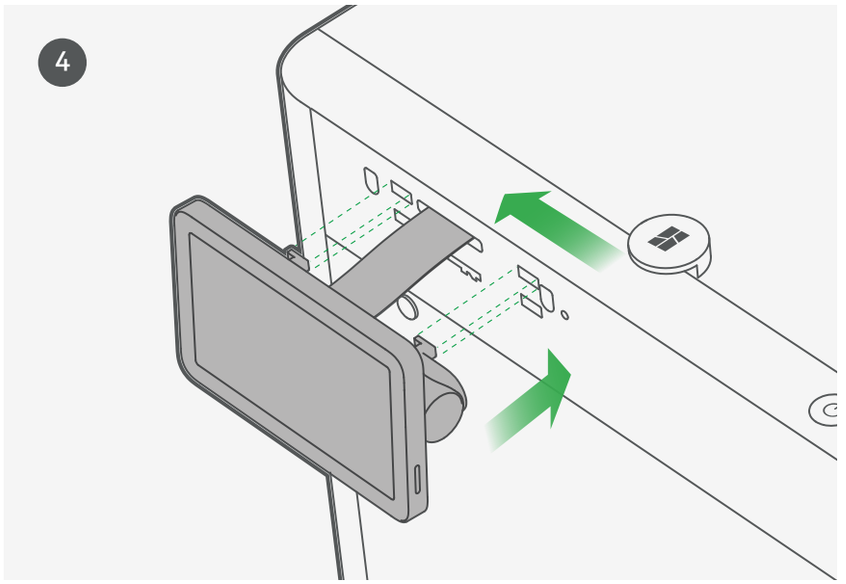
Remove the three screws with an Allen Key H2 to unlock the hot bed.



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



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

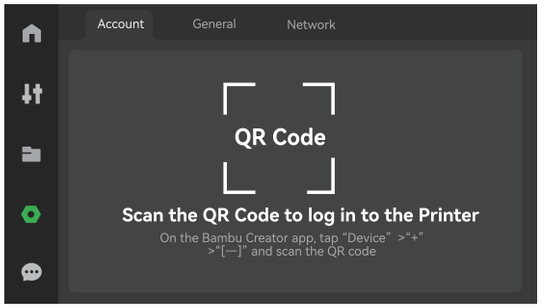


Insert the screen back to the slot on the printer, then lock it by pushing it to the left.

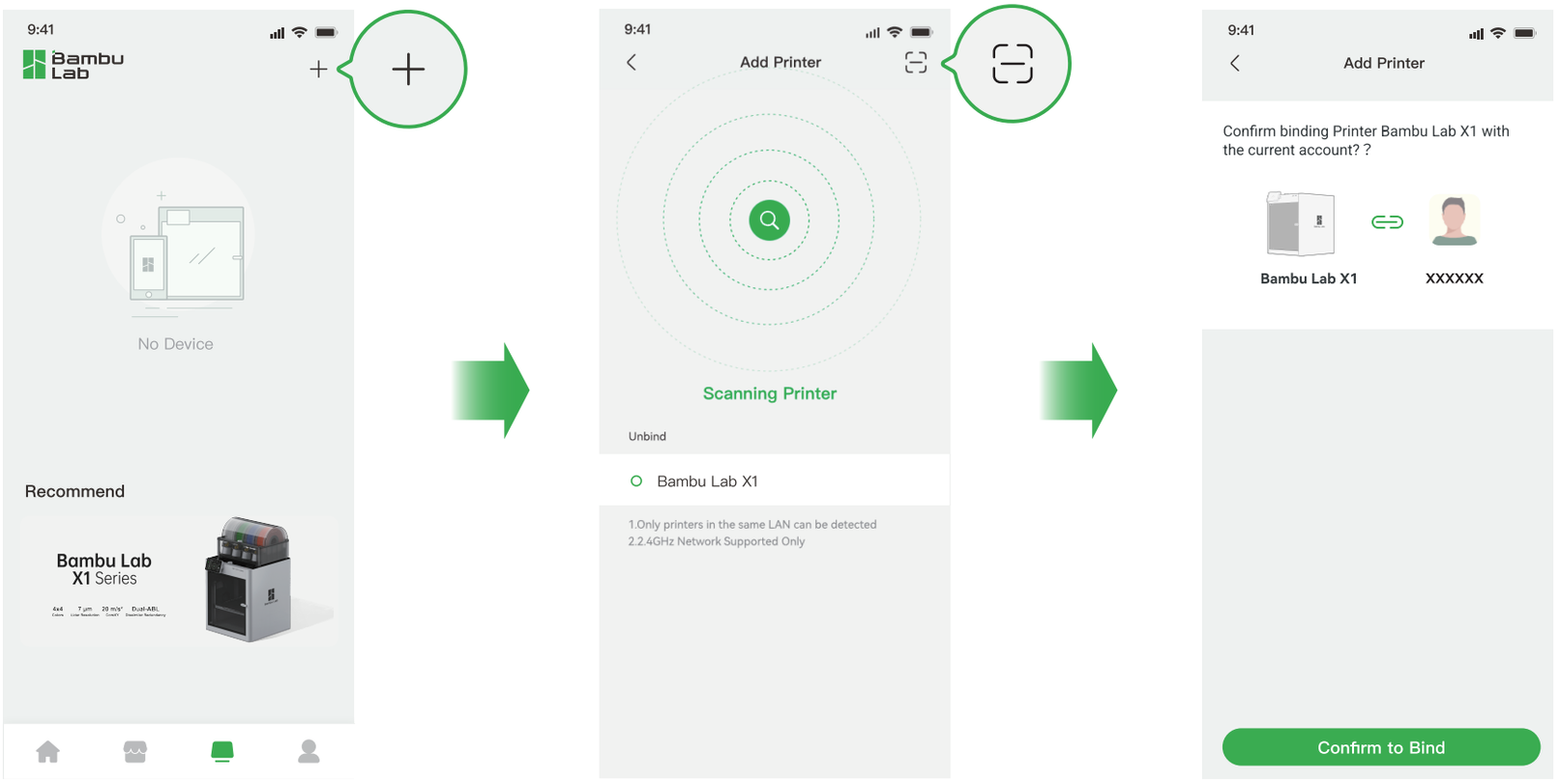
Printer Binding

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.



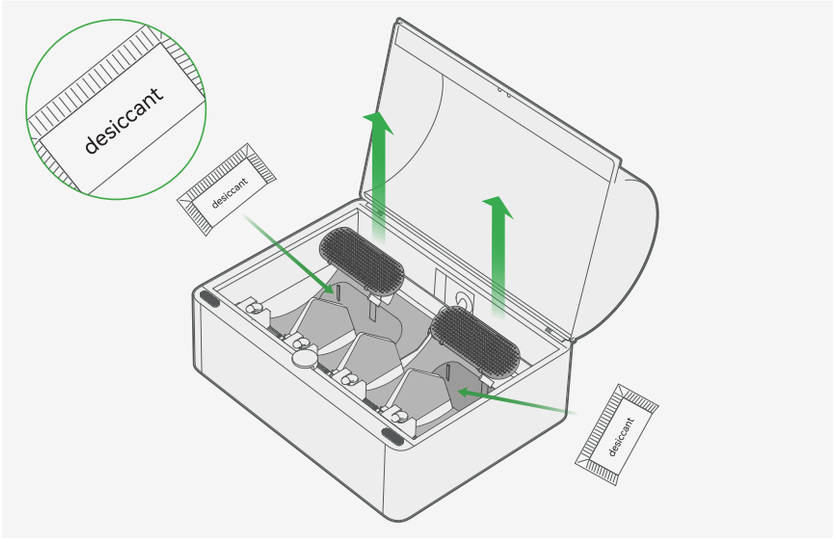
3. Use Bambu Handy to scan the QR code on the screen, and bind your printer with your Bambu Lab account.

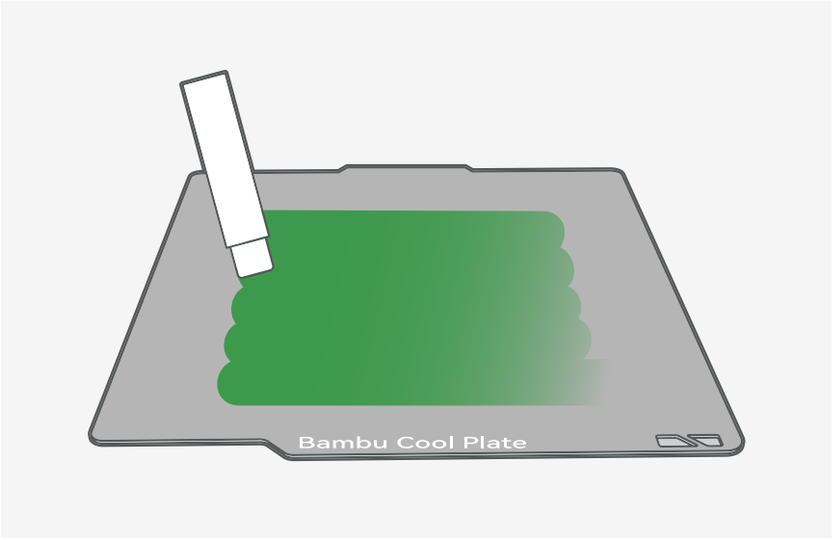


4. Follow the instructions on the screen to complete the initial calibration.
It is normal to have vibration and noise during the calibration process.

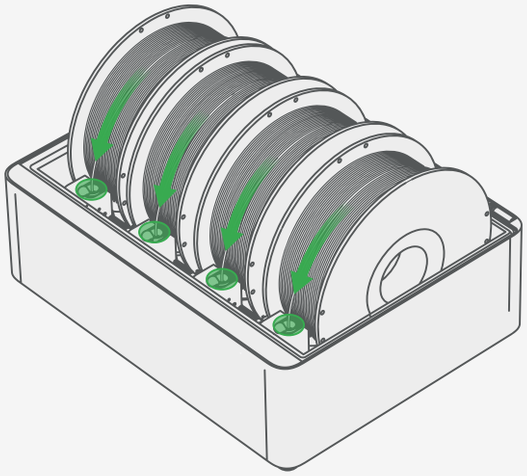
DO NOT remove the protective foam from beneath the hot bed until after the initial calibration is complete.

First Print



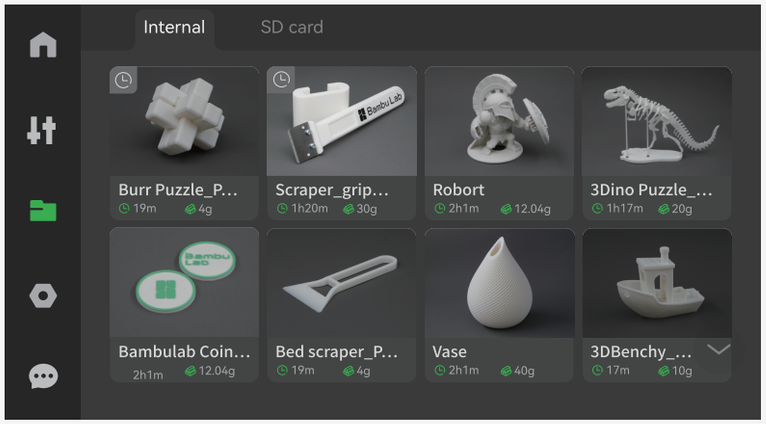


Apply a thin layer of glue on the build plate.



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.

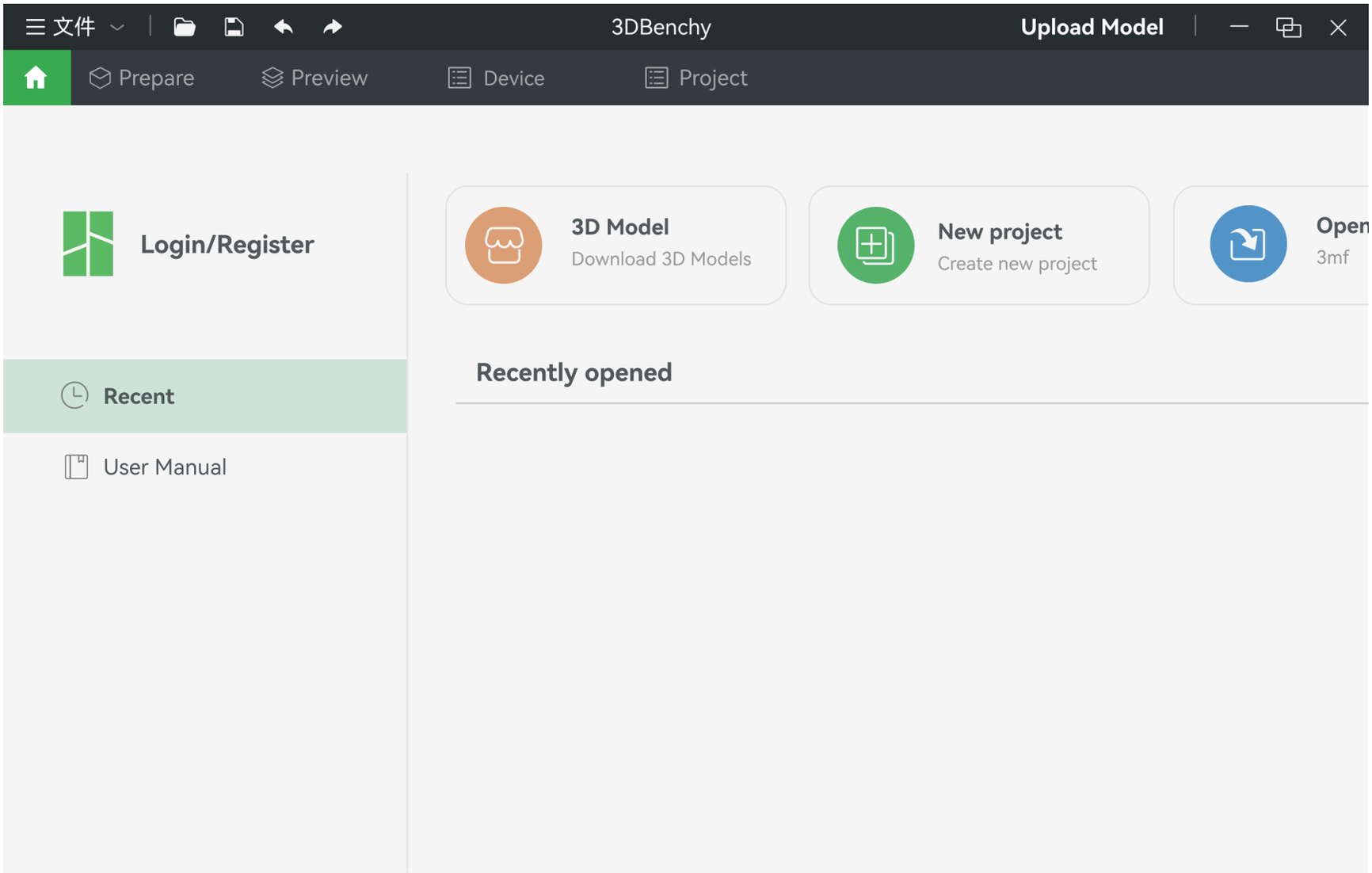


Press " 📁 " - "internal". Select a file to start the first print.

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

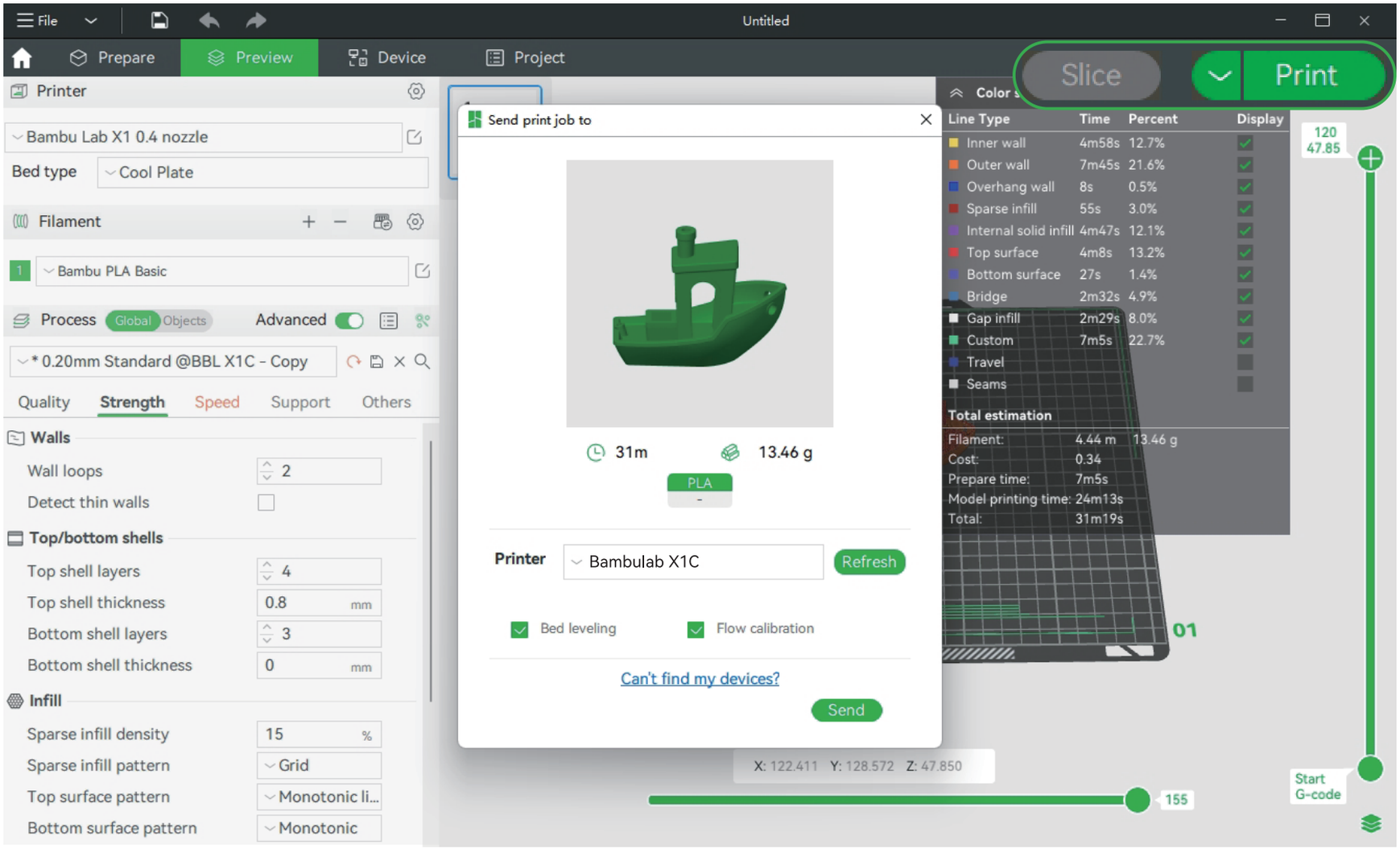
Bambu Studio

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.

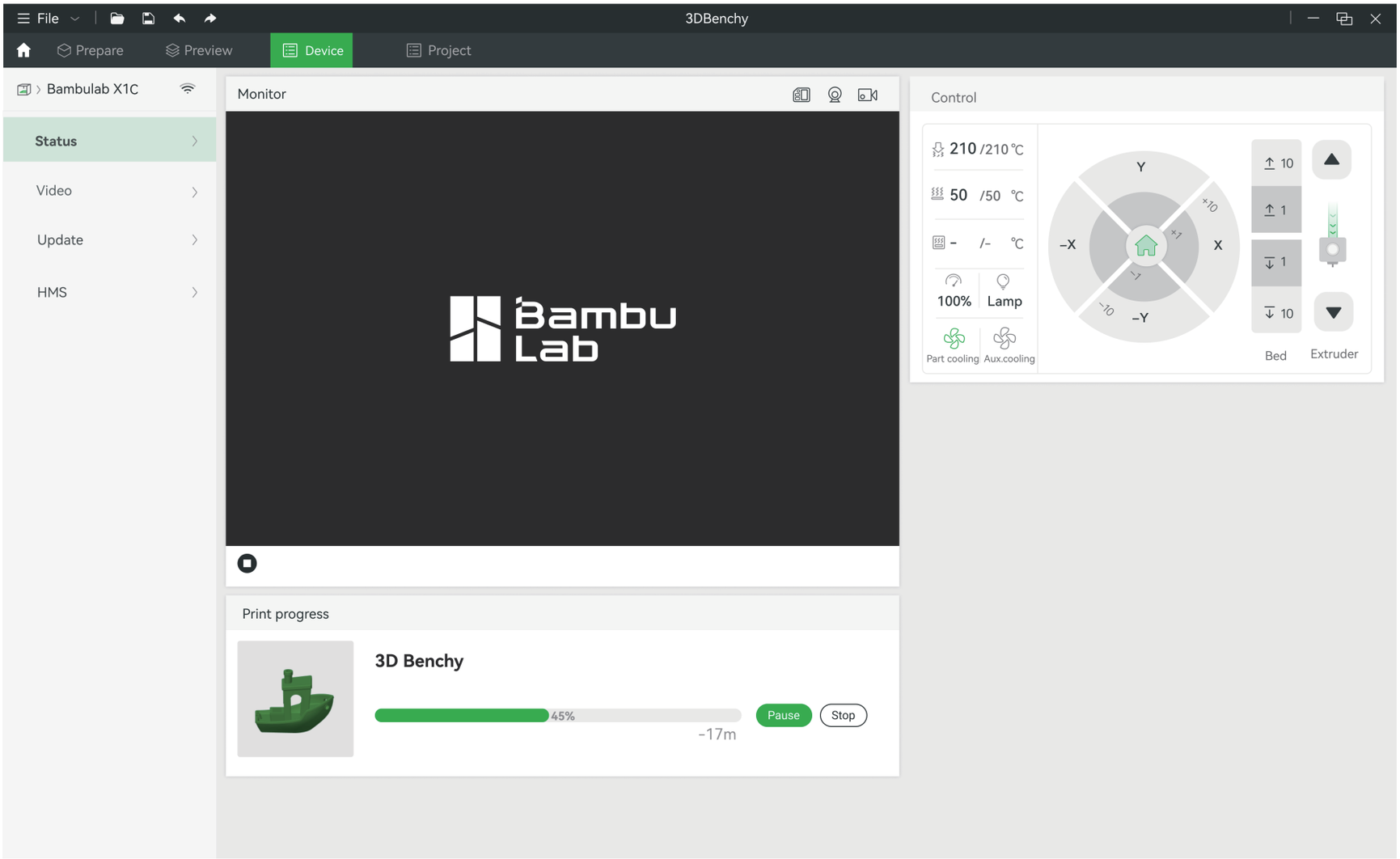
Bambu Studio



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	X1
Printing Technology		Fused Deposition Modeling	
Body	Build Volume(W*D*H)	256*256*256 mm	
	Chassis	Steel	
	Shell	Aluminum & Glass	Plastic & Glass
Tool Head	Hot End	All-Metal	
	Extruder Gears	Hardened Steel	Steel
	Nozzle	Hardened Steel	Stainless Steel
	Max Hot End Temperature	300℃	
	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	
Hot bed	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℃@220V， 120℃@110V	
Speed	Max Speed of Tool Head	500 mm/s	
	Max Acceleration of Tool Head	20 m/s^2	
	Max Hot End Flow	32 mm^3/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	Optional
	Air Filter	Activated Carbon Filter	Optional
Supported Filament	PLA, PETG, TPU,ABS,ASA,PVA,PET	Yes	
	PA, PC	Ideal	Capable
	Carbon/Glass Fiber Reinforced Polymer	Ideal	Not Recommended
Sensors	Bambu Micro Lidar	Yes	
	Chamber Monitoring Camera	1920*1080 Included	Optional
	Door Sensor	Yes	
	Filament Run Out Sensor	Yes	
	Filament Odometry	Optional with AMS	
	Power Loss Recover	Yes	

Physical Dimensions	Dimensions		389*389*457mm	
	Net Weight		14.13kg	13.18kg
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

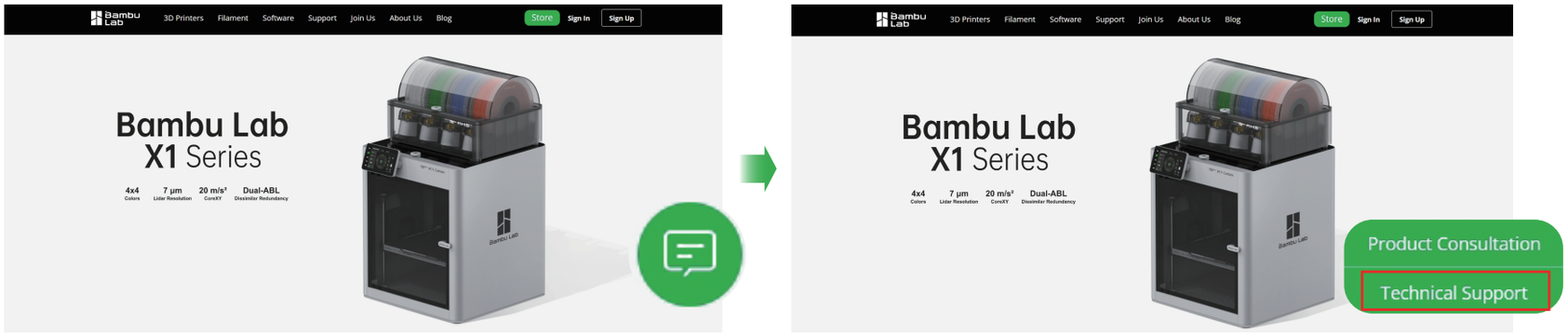
Please visit the Bambu Lab Wiki for more setup and maintenance tutorials.

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

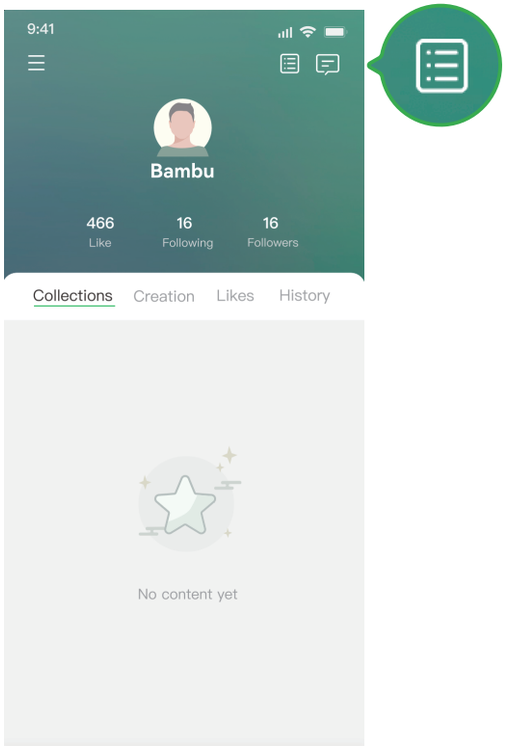
Bambulab Wiki

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