

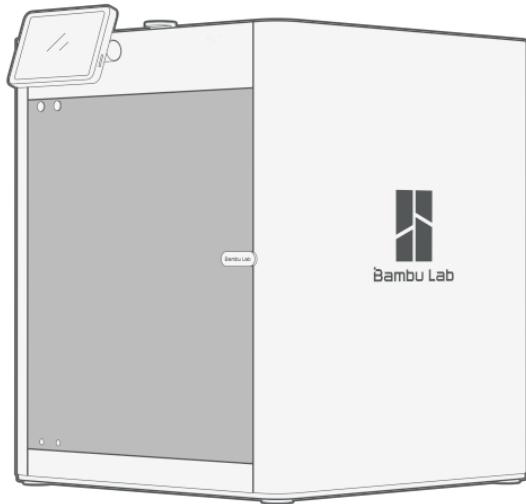
Bambu Lab X1-Carbon

3D Printer

Quick Start

Please review the entire guide before operating the printer.

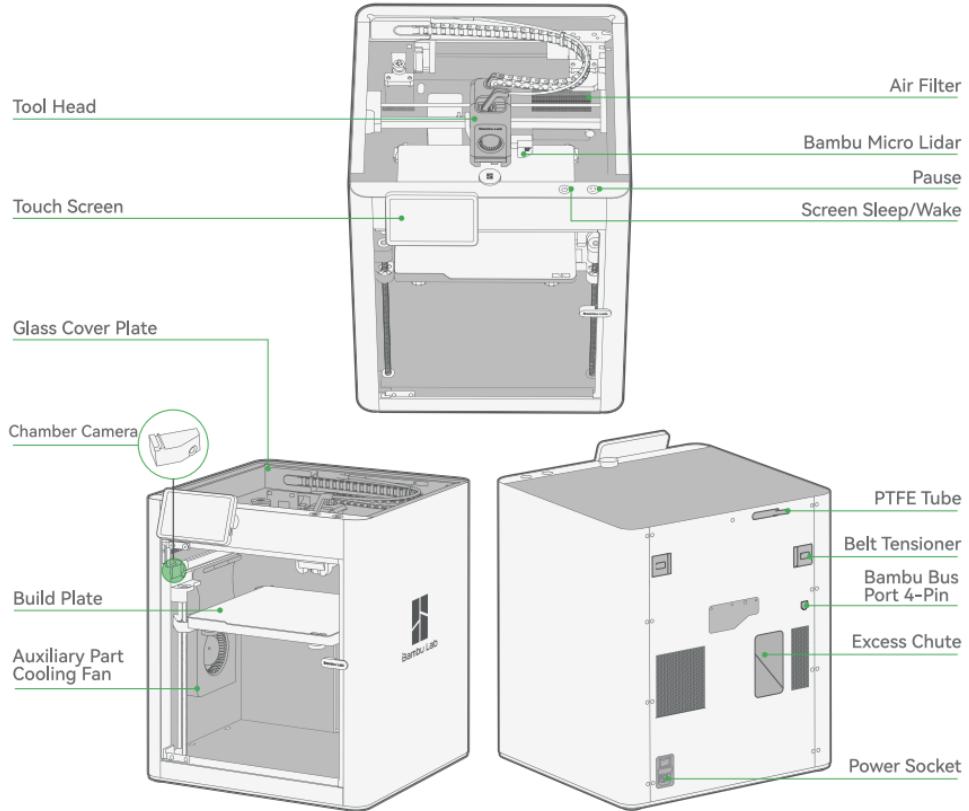
* Safety Notice: Do not connect to power until assembly is complete.



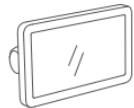


Bambu Studio & Bambu Handy
<https://bambulab.com/download>

Component Introduction



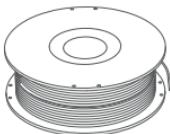
Accessory Specification



Touch Screen



Spool Holder



Filament Sample



Spare Hot End



Power Cord



Unclogging Pin Tool



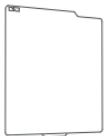
PTFE Tube



Nozzle Wiping Pad (x2)



Allen Key H1.5
Allen Key H2

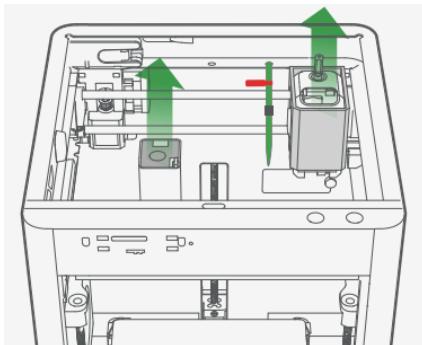


Flexible Build Plate
(Pre-installed on
build plate)

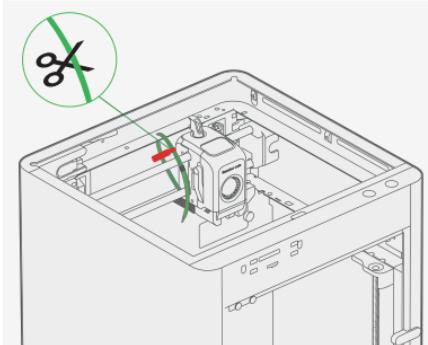


Bambu Scraper

Tool Head Unlock

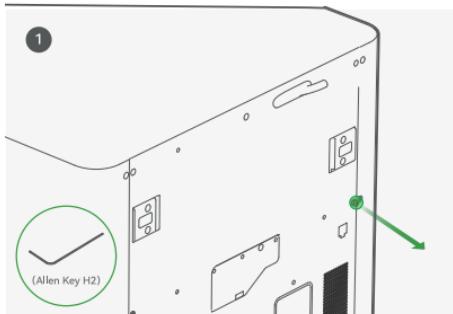


Remove the cardboard from the tool head.
Remove the foam from the excess chute.

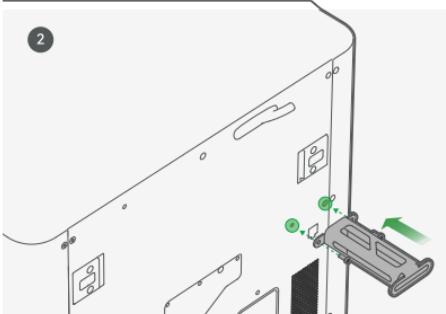


Cut the zip tie securing the toolhead.

Spool Holder Assembly



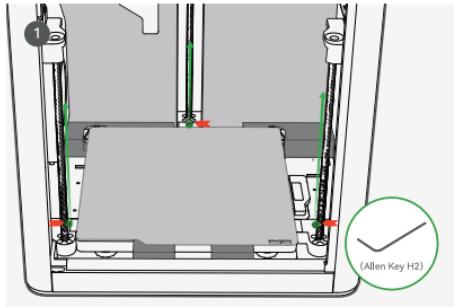
Remove the screw as pictured with an Allen Key H2.



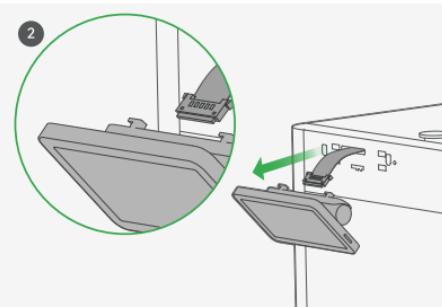
Secure the spool holder with two screws from the accessory box.

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

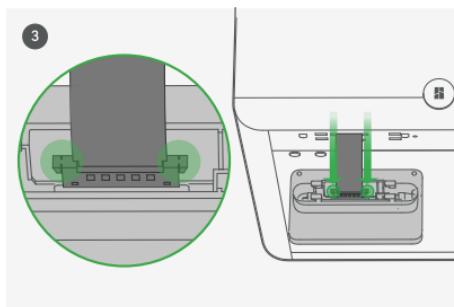
Hot Bed Unlock & Screen Installation



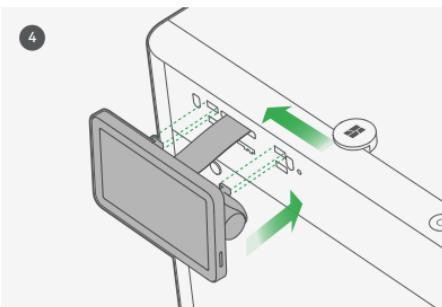
Remove the three screws with an Allen Key H2 to unlock the hot bed.



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

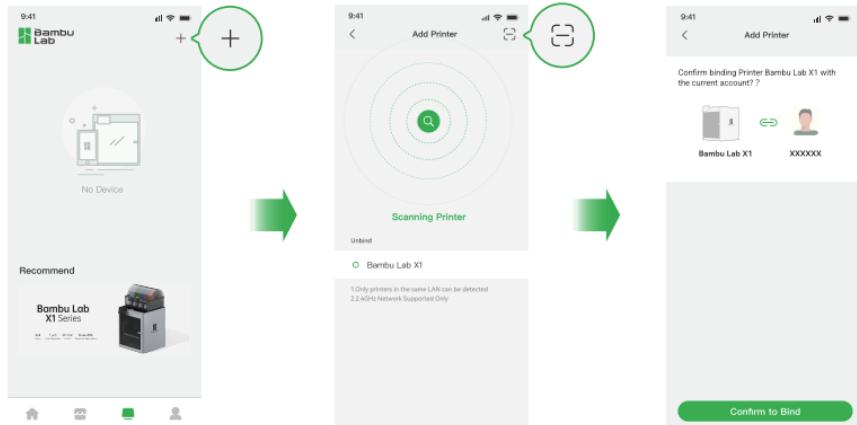
1. Download the Bambu Handy App. Register and log in to your Bambu Lab account.



2. Connect the printer to power. Follow the instructions on the screen until getting to the page shown on the right side.



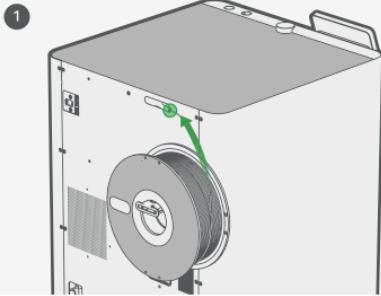
3. Use Bambu Handy to scan the QR code on the screen, and bind your printer with your Bambu Lab account.



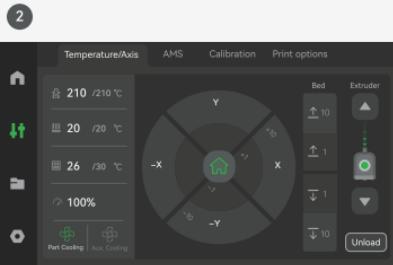
4. Follow the instructions on the screen to complete the initial calibration.
It is normal to have vibration and noise during the calibration process.

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

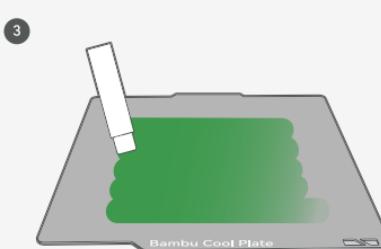
First Print



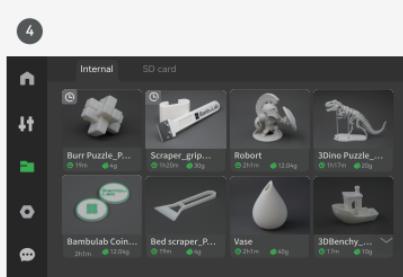
Insert the filament into the PTFE Tube. Keep pushing the filament until it can not move forward.
*We recommend using the supplied Bambu PLA Basic for your first test print.



Press "—" and "—" and heat the nozzle to the recommended temperature for the filament. Press "Extruder" - "—" several times until the filament comes out from the nozzle and cannot be pulled out from the PTFE tube manually.



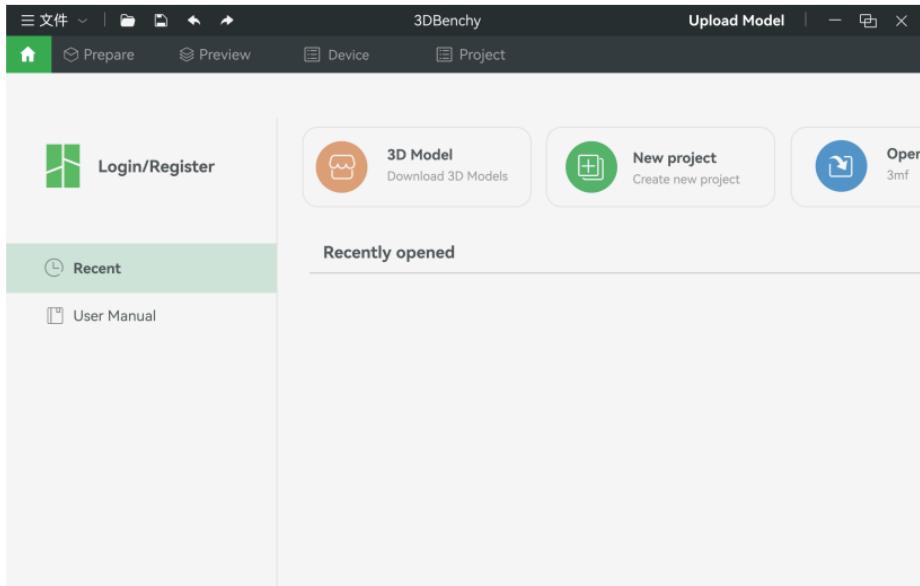
Apply a thin layer of glue on the build plate.
*We recommend using one of the pre-loaded files as a first test print.



Press "—" - "internal". Select a file to start the first print.
*We recommend using one of the pre-loaded files as a first test print.

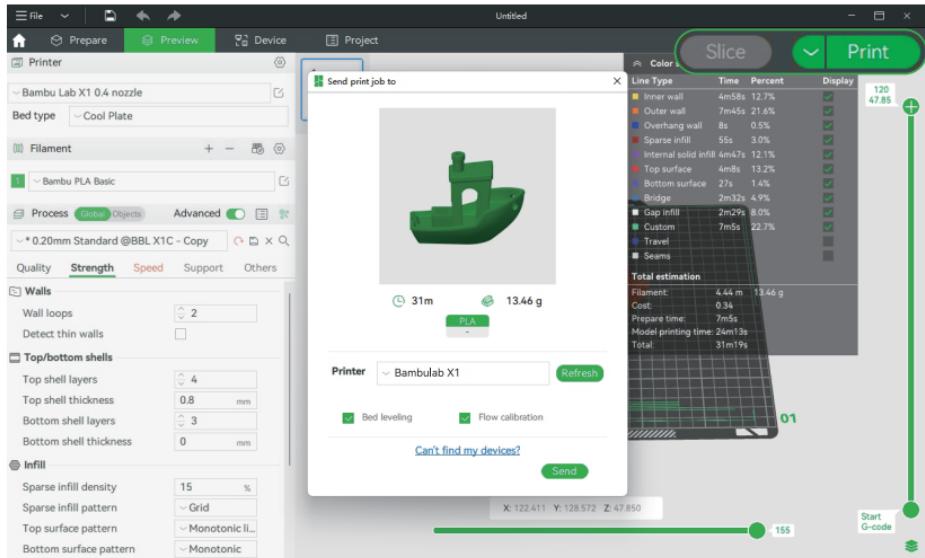
Bambu Studio

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.

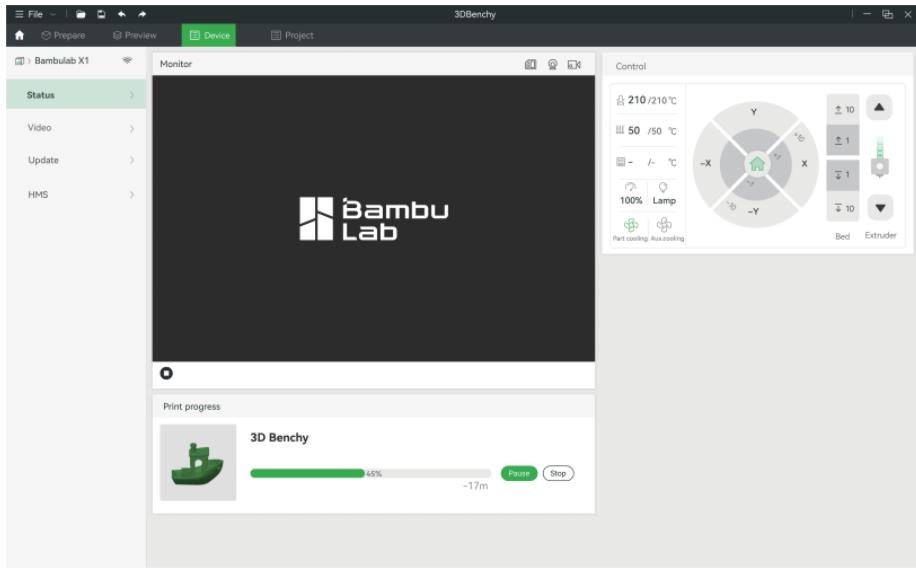
Bambu Studio



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 ³
	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
	Compatible Build Plate	Bambu Cool Plate, Bambu High Temperature Plate, Bambu Textured PEI Plate, Bambu Smooth PEI Plate, Bambu Engineering Plate(The other side of Cool/High Temperature Plate)
Heatbed	Max Build Plate Temperature	110°C@220V, 120°C@110V
	Max Speed of Toolhead	500 mm/s
Speed	Max Acceleration of Toolhead	20 m/s ²
	Max Hot End Flow	32 mm ³ /s @ABS
	Part Cooling Fan	Closed Loop Control
Cooling	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
	PLA, PETG, TPU, ABS, ASA, PVA, PET	Ideal
Supported Filament	PA, PC	Ideal
	Carbon/Glass Fiber Reinforced Polymer	Ideal
	Bambu Micro Lidar	Yes
Sensors	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 ³	
	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
		Maximum Output of Laser Radiation	<0.778mW
	Laser (CLASS 2)	Wavelength	405nm、808nm
		Maximum 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>

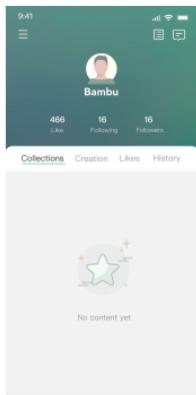


If you need support, please try either of the two approaches:

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