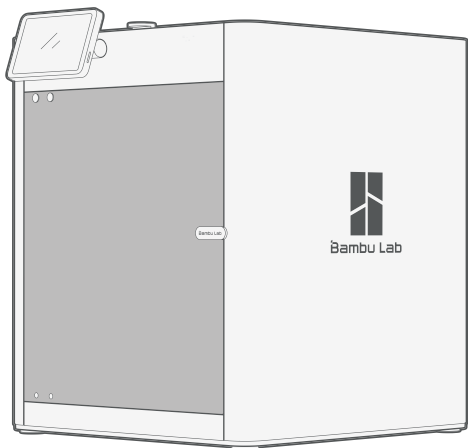


Bambu Lab X1-Carbon 3D Printer Quick Start

Please review the entire guide before operating the printer.

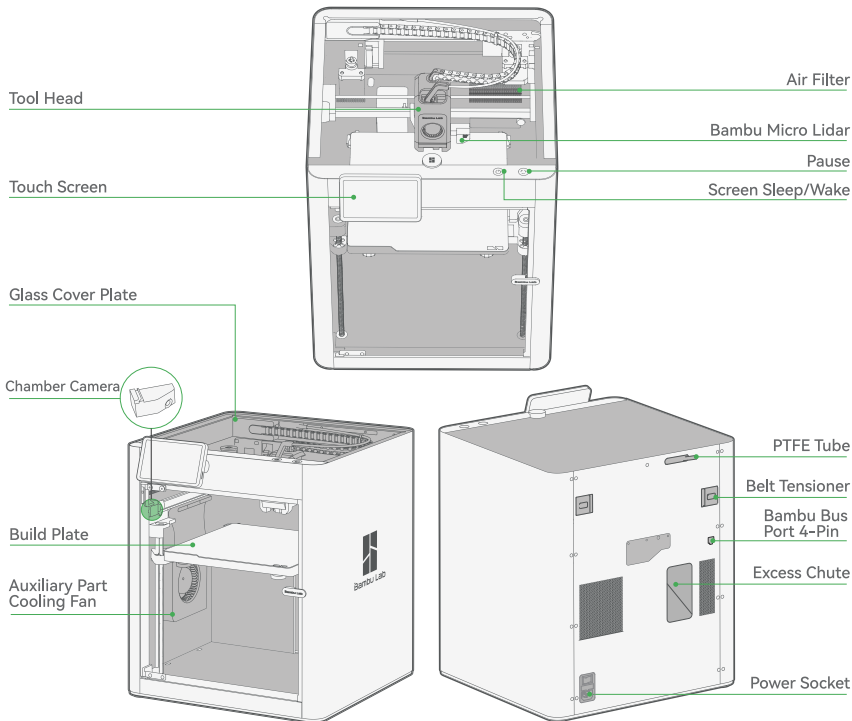
* Safety Notice: Do not connect to power until assembly is complete.



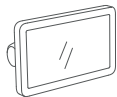


Bambu Studio & Bambu Handy
<https://bambulab.com/download>

Component Introduction



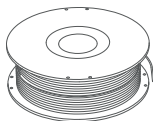
Accessory Specification



Touch Screen



Spool Holder



Filament Sample



Spare Hot End



Power Cord



Unlogging Pin Tool



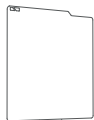
PTFE Tube



Nozzle Wiping Pad (x2)



Allen Key H1.5
Allen Key H2

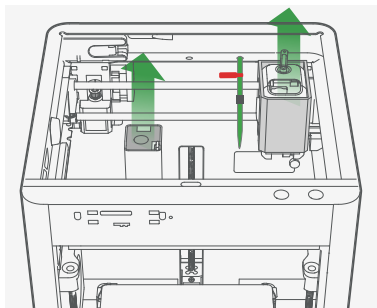


Flexible Build Plate
(Pre-installed on
build plate)

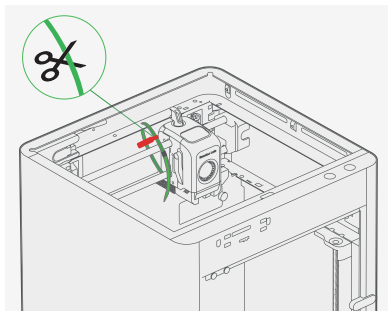


Bambu Scraper

Tool Head Unlock

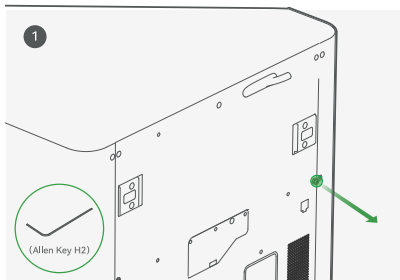


Remove the carboard from the tool head.
Remove the foam from the excess chute.

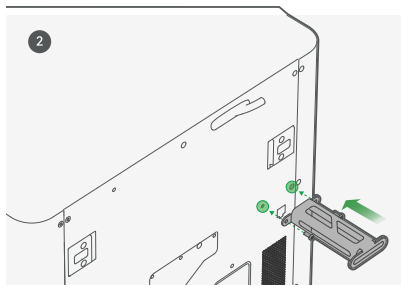


Cut the zip tie securing the toolhead.

Spool Holder Assembly



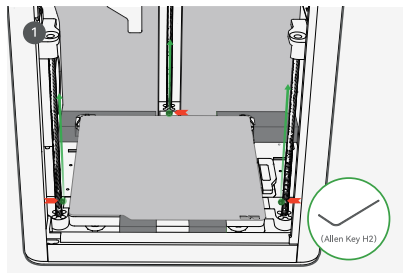
Remove the screw as pictured with an Allen Key H2.



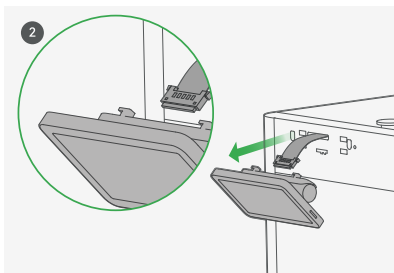
Secure the spool holder with two screws from the accessory box.

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

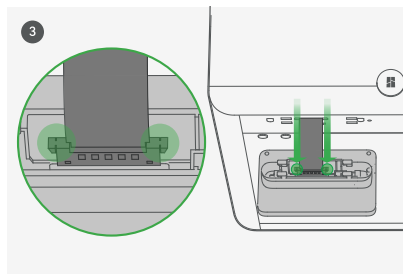
Hot Bed Unlock & Screen Installation



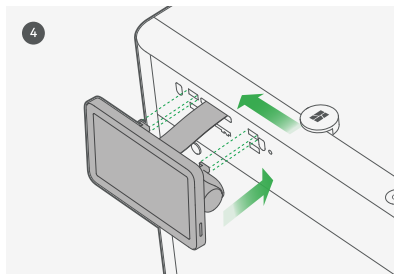
Remove the three screws with an Allen Key H2 to unlock the hot bed.



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



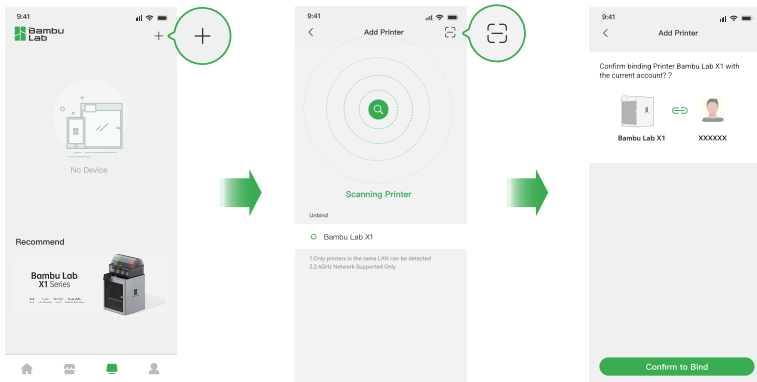
Insert the FPC into the port by pressing the terminal as pictured.



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

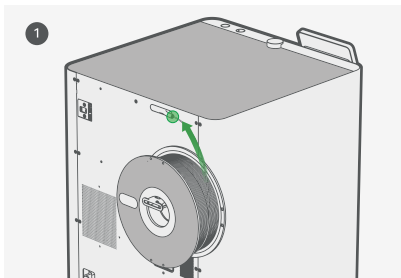
Printer Binding

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.

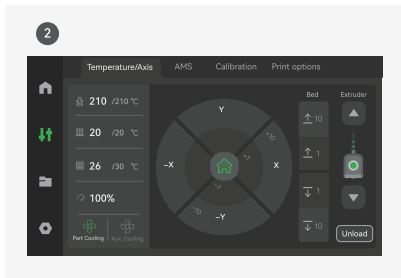


4. Follow the instructions on the screen to complete the initial calibration.
It is normal to have vibration and noise during the calibration process.
DO NOT remove the protective foam from beneath the hot bed until after the initial calibration is complete.

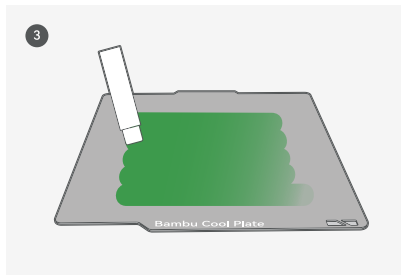
First Print



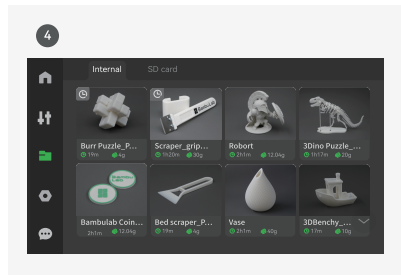
Insert the filament into the PTFE Tube. Keep pushing the filament until it can not move forward. *We recommend using the supplied Bambu PLA Basic for your first test print.



Press "↑↑" - "⏏", and 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.



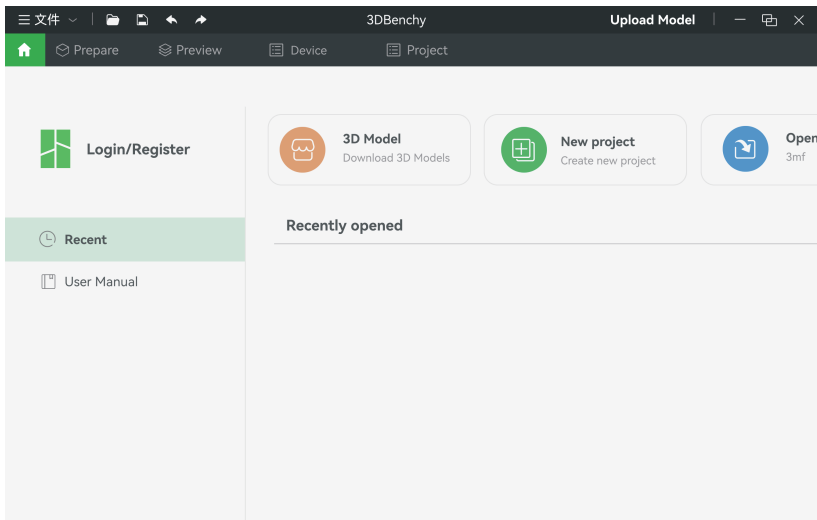
Apply a thin layer of glue on the build plate.



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

The screenshot shows the Bambu Studio interface with a 'Send print job to' dialog box open. The dialog displays a 3D model of a green part, a '31m' and '13.46 g' label, a 'PLA' filament selection, and a printer selection dropdown set to 'Bambulab X1'. The background shows the main software interface with a 'Slice' button, a 'Print' button, and a table of print statistics.

Line Type	Time	Percent	Display
Inner wall	4m58s	12.7%	<input checked="" type="checkbox"/>
Outer wall	7m45s	21.6%	<input checked="" type="checkbox"/>
Overhang wall	8s	0.3%	<input checked="" type="checkbox"/>
Sparse infill	55s	3.0%	<input checked="" type="checkbox"/>
Internal solid infill	4m47s	12.1%	<input checked="" type="checkbox"/>
Top surface	4m8s	13.2%	<input checked="" type="checkbox"/>
Bottom surface	27s	1.4%	<input checked="" type="checkbox"/>
Bridge	2m32s	4.9%	<input checked="" type="checkbox"/>
Gap infill	2m29s	8.0%	<input checked="" type="checkbox"/>
Custom	7m5s	22.7%	<input checked="" type="checkbox"/>
Travel			<input checked="" type="checkbox"/>
Seams			<input type="checkbox"/>

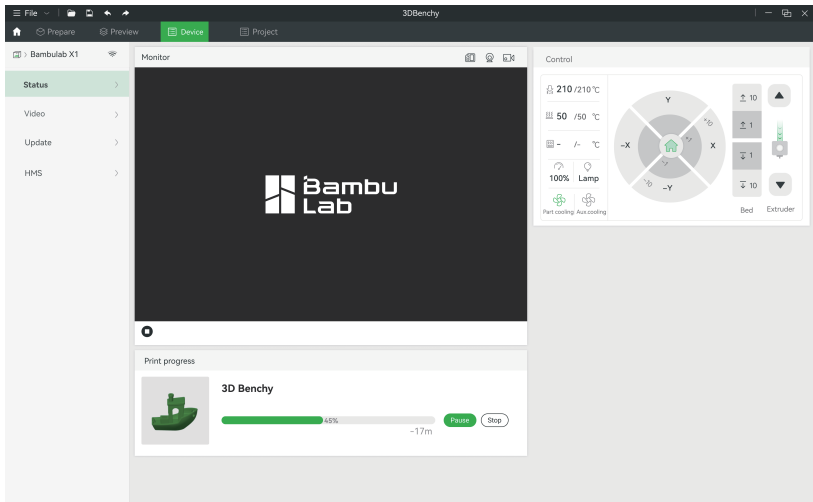
Total estimation

Filament:	4.44 m	13.46 g
Cost:	0.34	
Prepare time:	7m5s	
Model printing time:	26m19s	
Total:	31m19s	

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



The screenshot displays the Bambu Studio software interface. At the top, the title bar shows '3DBenchy'. The main window is divided into several sections:

- Left Sidebar:** Contains navigation options: 'Bambulab X1', 'Status', 'Video', 'Update', and 'HMS'.
- Monitor View:** A large black area displaying the 'Bambu Lab' logo.
- Print progress:** A section showing a small 3D model of a green printer, the text '3D Benchy', a green progress bar at 15%, and a '-17m' time indicator. Below the progress bar are 'Pause' and 'Stop' buttons.
- Control Panel:** Located on the right, it includes:
 - Temperature readouts: 210 / 210 °C and 50 / 50 °C.
 - A circular control dial with X, Y, Z, and rotation axes.
 - Buttons for 'Lamp' (100%), 'Part cooling', and 'Air cooling'.
 - Vertical sliders for 'Bed' and 'Extruder'.

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
Printing Technology		X1-Carbon
		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
Heatbed	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)
Speed	Max Build Plate Temperature	110°C@220V, 120°C@110V
	Max Speed of Toolhead	500 mm/s
	Max Acceleration of Toolhead	20 m/s ²
Cooling	Max Hot End Flow	32 mm ³ /s @ABS
	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
Supported Filament	Air Filter	Activated Carbon Filter
	PLA, PETG, TPU,ABS,ASA,PVA,PET	Ideal
	PA, PC	Ideal
Sensors	Carbon/Glass Fiber Reinforced Polymer	Ideal
	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 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

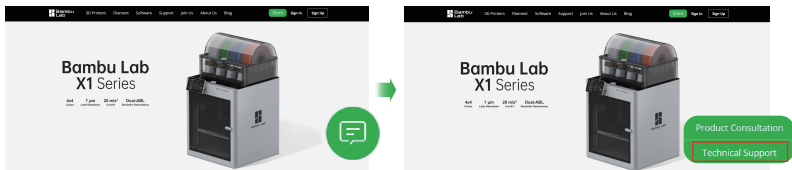
Please visit the Bambu Lab Wiki for more setup and maintenance tutorials.

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

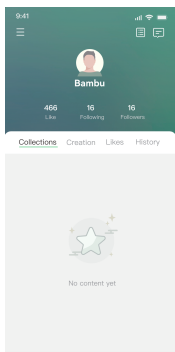


If you need support, please try either of the two approaches:

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