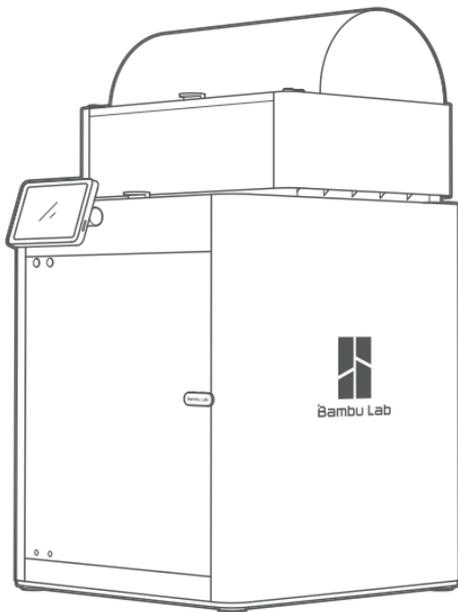


# Bambu Lab X1-Carbon Combo 3D Printer

## 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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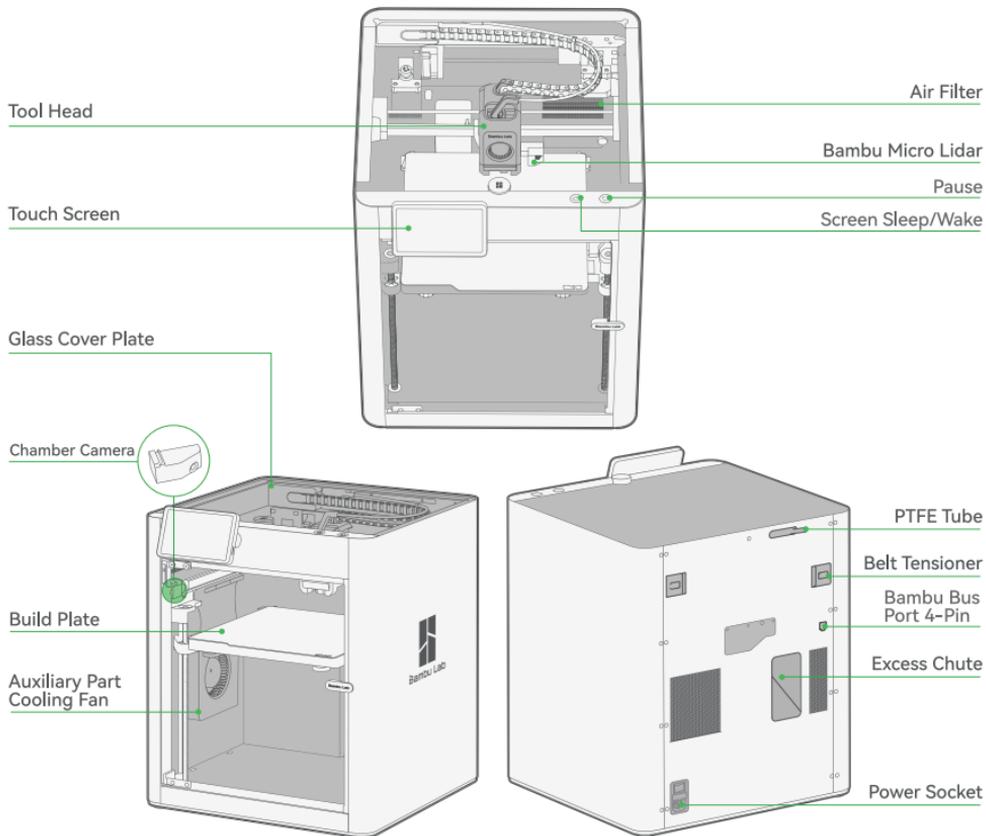
## \*Warning:

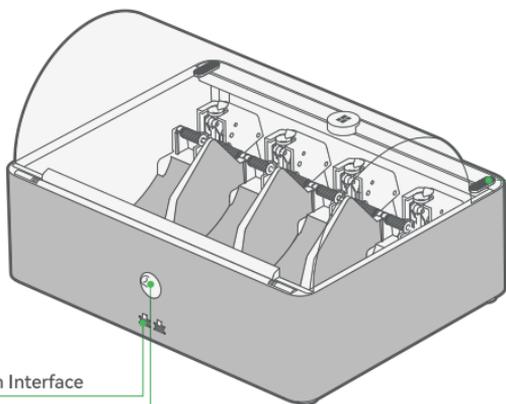
- When operating the AMS, we recommend using Bambu Filament, which has been thoroughly tested to work with the AMS.
- **Please make sure to avoid using soft materials like TPU or damp PVA, as they can get stuck in the AMS.**
- AMS supports spool width of 50 mm - 68 mm. We highly recommend using filament 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

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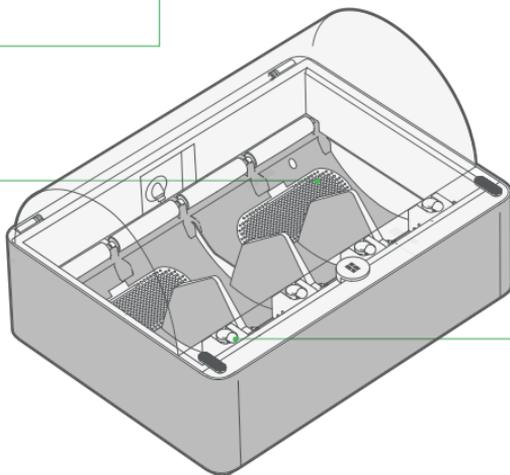




Buckle

Bambu Bus Cable 6-Pin Interface

Filament Outlet



Desiccant

Filament Inlet

## Accessory Specification

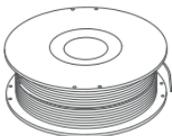
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Touch Screen



Spool Holder



Filament Sample



Spare Hot End



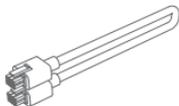
Nozzle Wiping Pad (x2)



Power Cord



Spare Filament Cutter (x2)



Bambu Bus Cable-6Pin



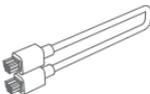
Allen Key H1.5  
Allen Key H2



Unclogging Pin  
Tool



Flexible Build Plate  
(Pre-installed on  
build plate)

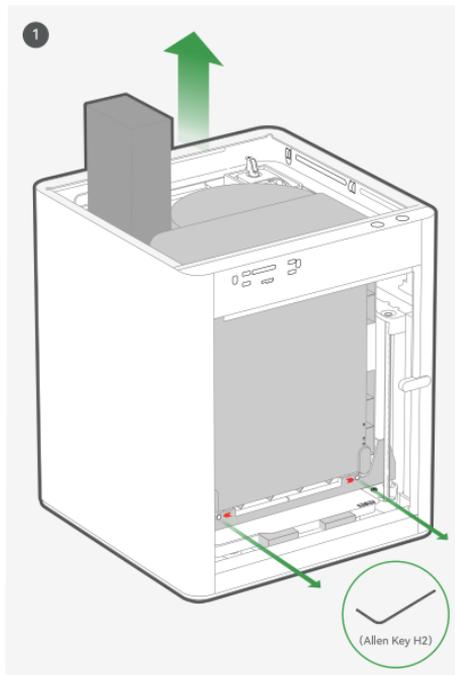


Bambu Bus Cable-4Pin



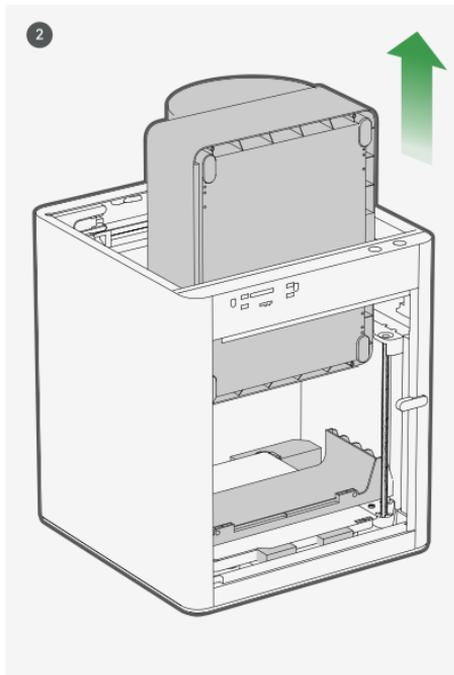
Bambu Scraper

## AMS & Tool Head Unlock

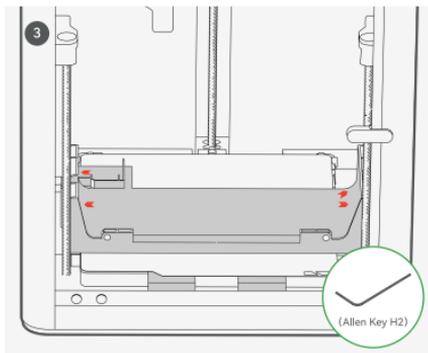


Take out the accessory box. Use Allen Key H2 to remove the screws as pictured.

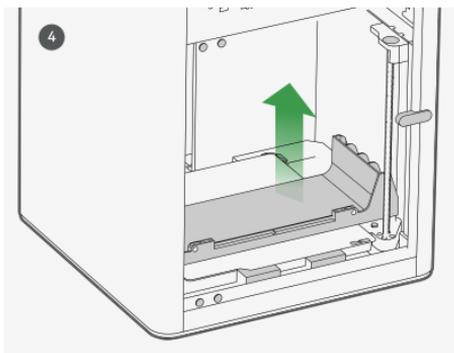
\*We recommend using the short end of the Allen Key to unlock the screws more easily.



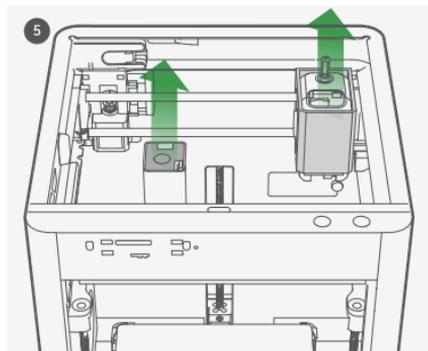
Take out the AMS by sliding it out through the top.



Remove the four screws as the arrows indicate.



Take out the AMS cushioning.



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

## AMS Assembly

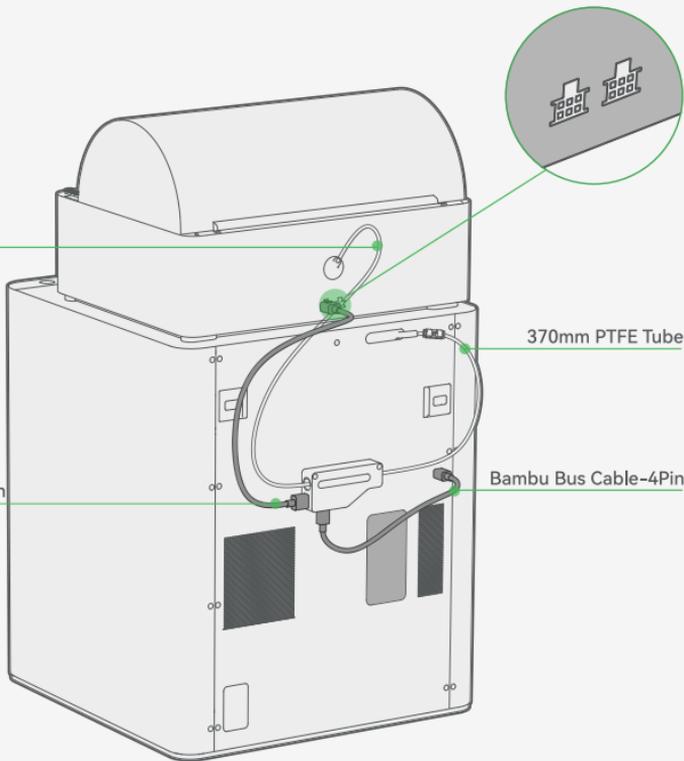
\*The cable-6pin can be plugged into either interface.

550mm PTFE Tube

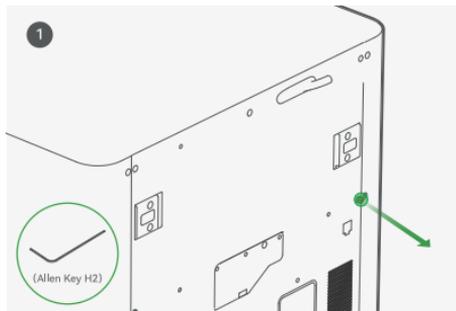
370mm PTFE Tube

Bambu Bus Cable-6Pin

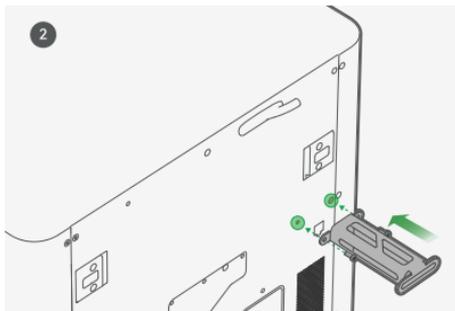
Bambu Bus Cable-4Pin



## Spool Holder Assembly

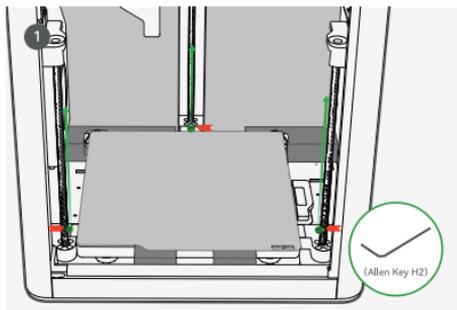


Remove the screw as pictured with an Allen Key H2.

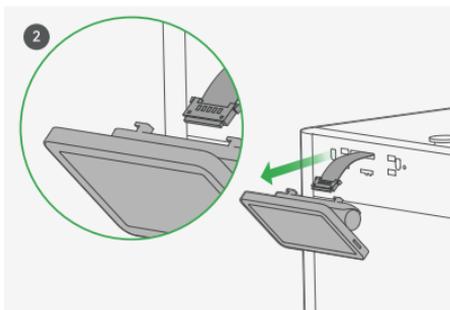


Secure the spool holder with two screws from the accessory box.

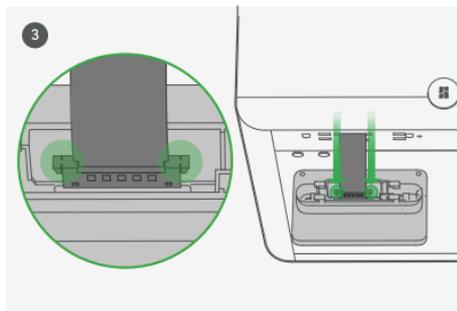
## Hot Bed Unlock & Screen Installation



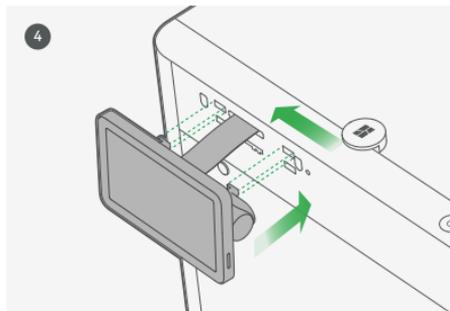
Remove the three screws with an Allen Key H2 to unlock the hot bed.



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



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



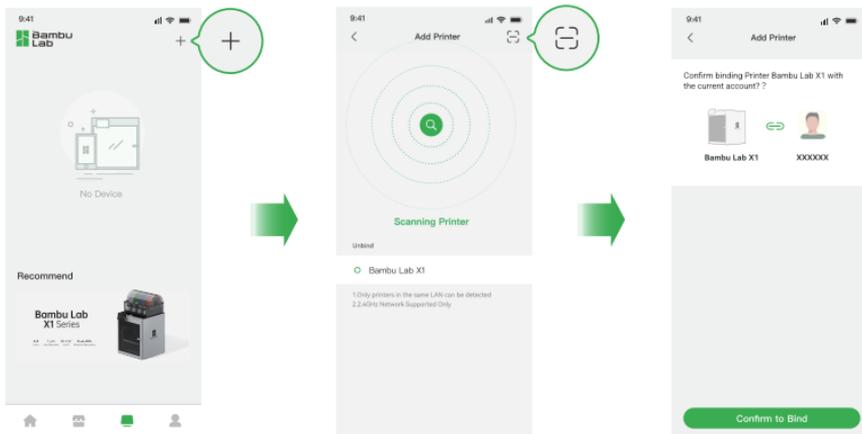
Insert the screen back to the slot on the printer, then lock it by pushing it to the left.

# 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.

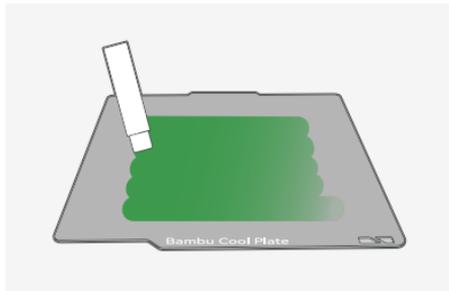
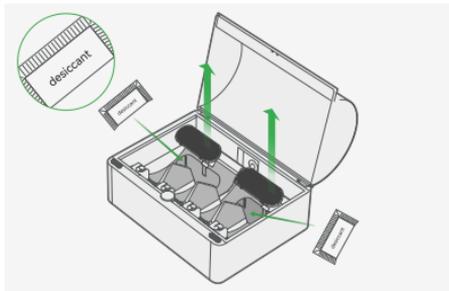


3. Use Bambu Handy to scan the QR code on the screen, and bind your printer with your Bambu Lab account.

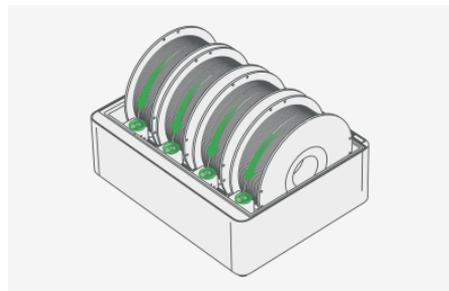


4. Follow the instructions on the screen to complete the initial calibration.  
It is normal to have vibration and noise during the calibration process.  
**DO NOT** remove the protective foam from beneath the hot bed until after the initial calibration is complete.

## First Print

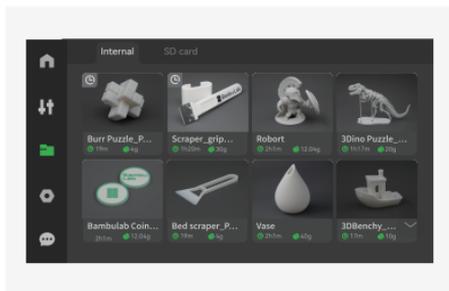


Apply a thin layer of glue on the build plate.



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.

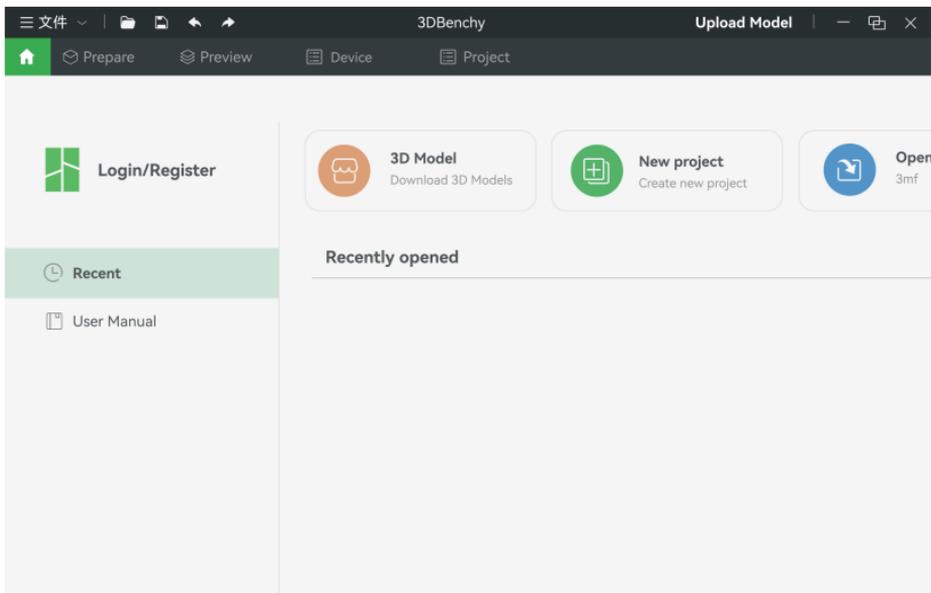


Press "  " - "internal". Select a file to start the first print.

\*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

The screenshot shows the Bambu Studio interface with a 'Send print job to' dialog box open. The dialog contains the following information:

- 3D Model:** A green 3D model of a part.
- Time and Weight:** 31m and 13.46 g.
- Filament:** PLA.
- Printer:** Bambulab X1C.
- Options:**  Bed leveling,  Flow calibration.
- Buttons:** Refresh, Send, and a link 'Can't find my devices?'.

The background interface shows the 'Print' button and a layer height slider set to 120. The 'Total estimation' table is also visible:

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"/>

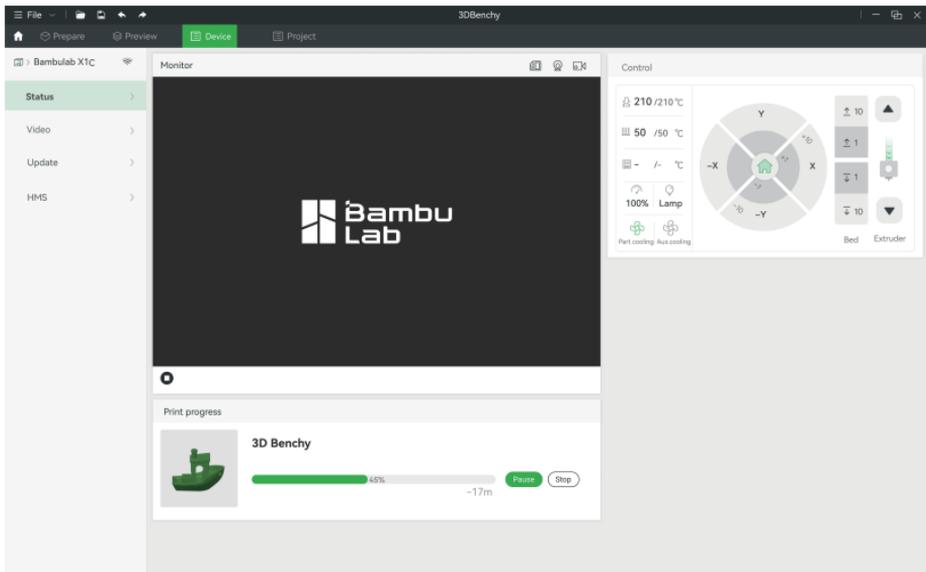
**Total estimation**

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



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