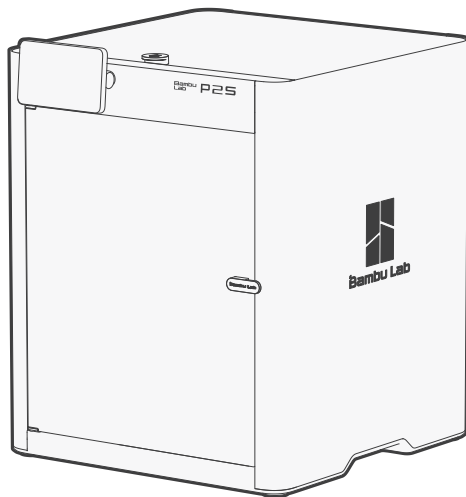


# Bambu Lab P2S

## Quick Start Guide

Please review the entire guide before using the product.

Safety notice: Do not connect to power until the assembly is complete.





### **Video guide**

Scan the QR code to watch a step-by-step video and get started quickly.

[bambulab.com/p2s-quick-start](https://bambulab.com/p2s-quick-start)



### **Download Bambu Handy and Bambu Studio**

Scan the QR code to download Bambu Handy, or visit the link below to download Bambu Studio. You can remotely control your printer and monitor your prints in real time on both your phone and computer.

[bambulab.com/download](https://bambulab.com/download)



### **Explore more cool models**

Scan the QR code to visit MakerWorld, our models community, where you can find a variety of free models, and quickly bring your ideas to life using the creativity tools in MakerLab and accessories in Maker's Supply.

[makerworld.com](https://makerworld.com)



### **Learn with Bambu Academy**

Scan the QR code to visit Bambu Academy and explore printer and software courses from beginner to advanced levels to enhance your 3D printing skills.

[bambulab.com/support/academy](https://bambulab.com/support/academy)

## Table of Contents

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Read before use.....	4
Printer component introduction.....	5
Toolhead component introduction.....	8
Included accessories.....	9
Remove the package.....	10
Unlock the heatbed.....	14
Remove the lead screw protectors.....	15
Unlock the toolhead.....	16
Install the touchscreen.....	17
Install the spool holder assembly.....	19
Use the external spool.....	20
Plug in the power cable and power on.....	21
Bind the printer - Bambu Handy.....	22
Bind the printer - Bambu Studio.....	23
First internal model print.....	24
After-print notes.....	25
Regular maintenance.....	26

Table of Contents

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Printer specifications..... 27

Technical support..... 31



## Read before use

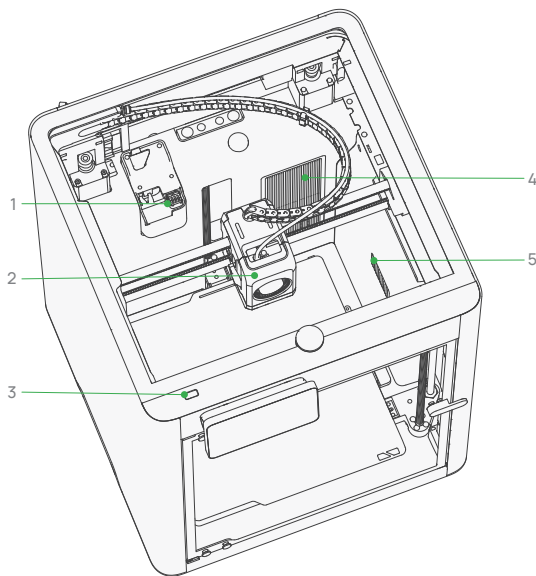
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To ensure safety and optimal performance, please follow these guidelines:

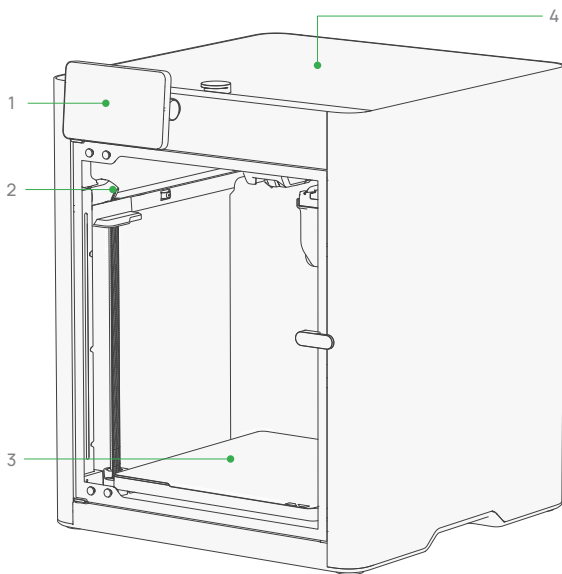
- Verify that the printer's operating voltage matches the specified requirements to avoid damage or safety hazards. This can be checked on the label next to the power socket. Refer to the "Printer specifications" section for details.
- Regular maintenance is essential to keep the printer's complex mechanisms running smoothly. For guidance, see the "Regular Maintenance" section.
- For best results, we recommend using Bambu filaments, which have been rigorously tested for compatibility, safety, and stability with the product.
- **When printing with TPU, feed the filament directly into the toolhead and avoid using the PTFE tube coupler on the back of the printer.**

# Printer component introduction



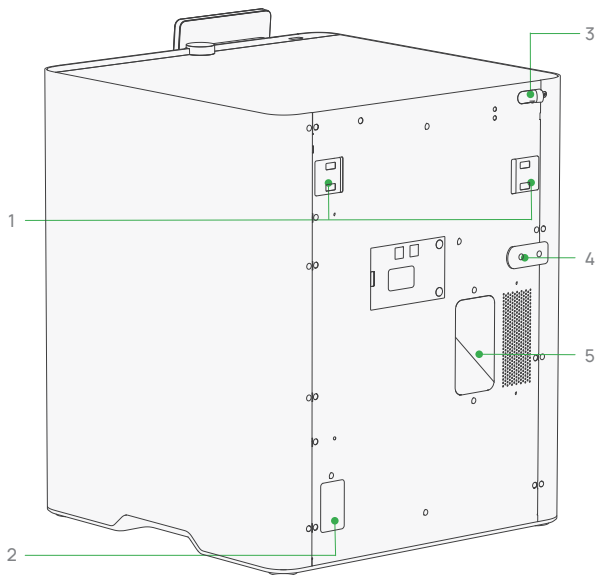
No.	Name	No.	Name	No.	Name
1	Purge Wiper	2	Toolhead	3	USB Port
4	Air Filter	5	Adaptive Airflow Switching Unit	/	/

## Printer component introduction



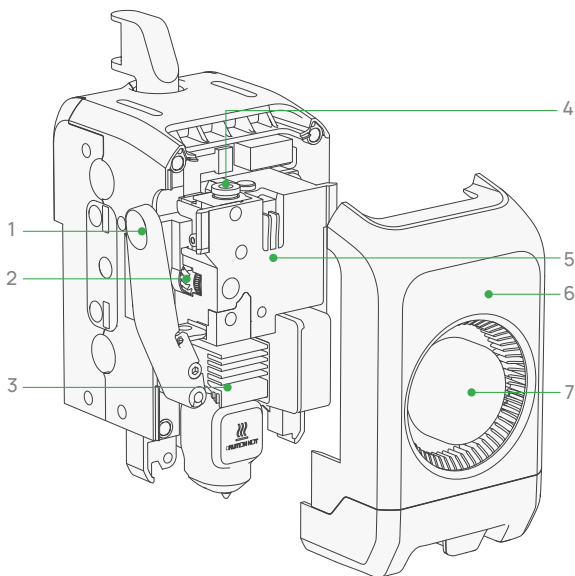
No.	Name	No.	Name	No.	Name
1	Touchscreen	2	Live View Camera	3	Heatbed
4	Top Glass Cover	/	/	/	/

## Printer component introduction



No.	Name	No.	Name	No.	Name
1	Belt Tensioners	2	Power Socket	3	PTFE Tube Coupler
4	Spool Holder Base Plate	5	Excess Chute	/	/

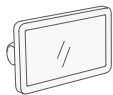
## Toolhead component introduction



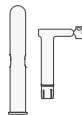
No.	Name	No.	Name	No.	Name
1	Filament Cutter Lever	2	Extruder Gear	3	Hotend
4	Toolhead Filament Inlet	5	Extruder	6	Toolhead Front Cover
7	Part Cooling Fan	/	/	/	/

## Included accessories

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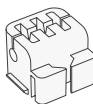
Touchscreen



Spool Holder  
Assembly



Filament Cutter



Nozzle  
Wiping Pad



Hotend  
Silicone Sock



Power Cord



Allen Key H1.5  
Allen Key H2.0



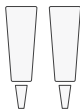
Unclogging Pin



PTFE Tube



Build Plate  
(Pre-installed  
on heatbed)



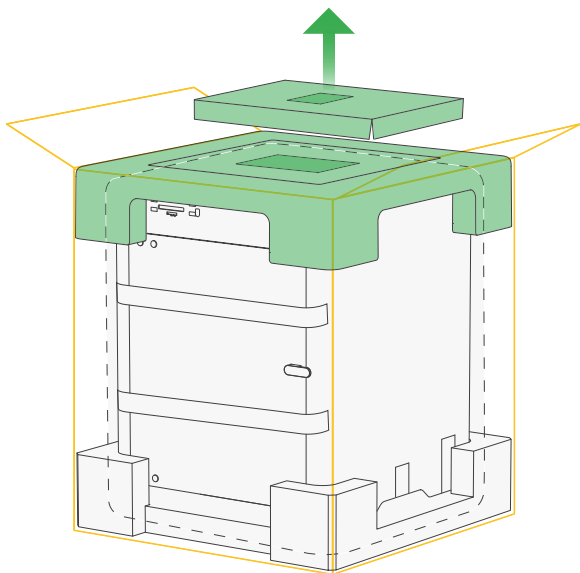
Lubricant Grease  
& Lubricant Oil



Scraper Blade

## Remove the package

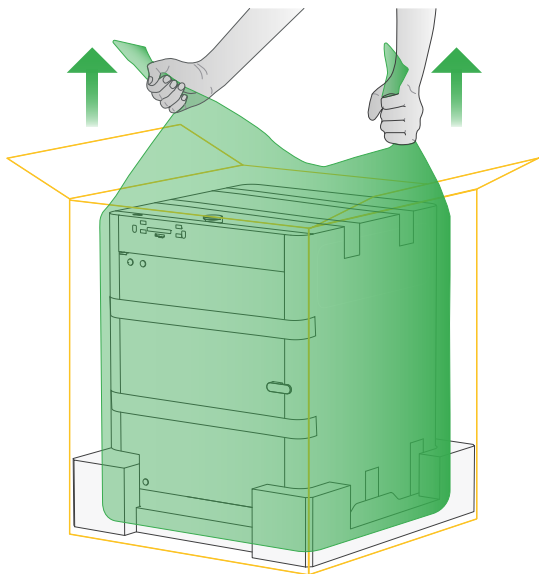
Keep packaging materials and screws for shipping.



1. Open the packaging box, take out the quick start guide, and remove the surrounding cardboard. Then take out the PTFE tubes and remove the top foam.

## Remove the package

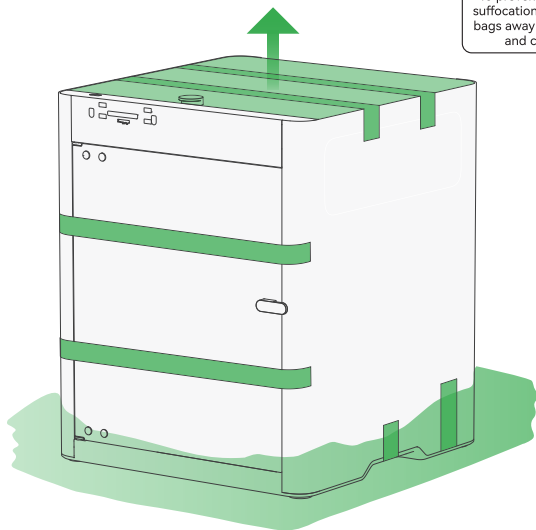
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2. Grip the top corners of the moisture-proof bag and lift the printer, placing it on a stable surface.



## Remove the package



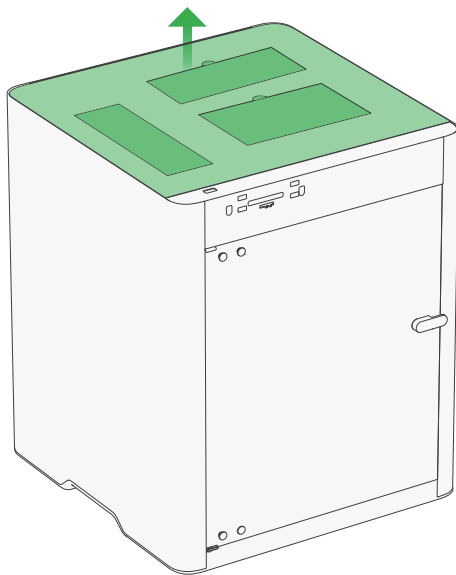
### WARNING

To prevent the risk of suffocation, keep these bags away from babies and children

3. Remove the moisture-proof bag and all adhesive tapes from the top, front, and bottom of the printer. Then, carefully lift off the top glass cover and set it aside.

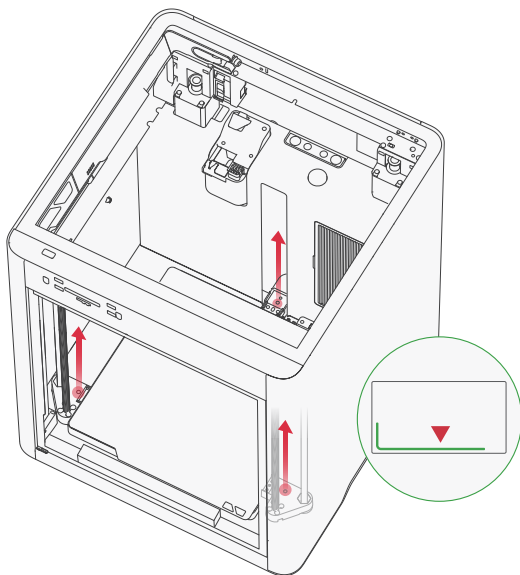
## Remove the package

---



4. Take out all the accessories, and remove the surrounding cardboard. Open the front door and remove the protective bag from it.

## Unlock the heatbed

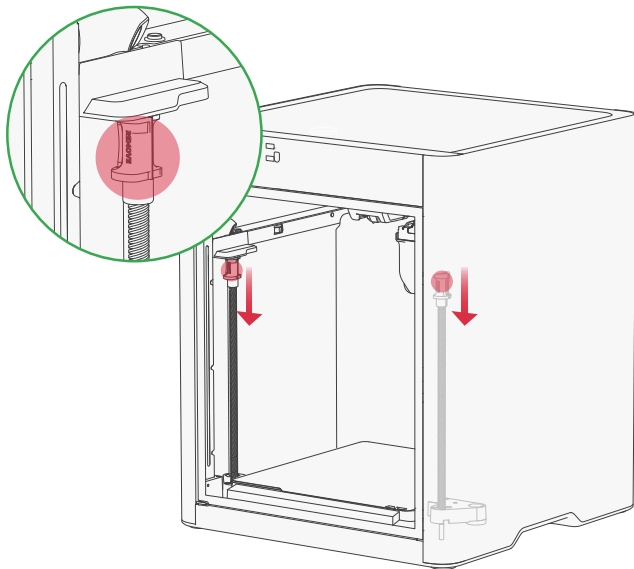


Use the longer H2.0 allen key from the toolbox to remove the 3 screws marked in red to unlock the heatbed.

The foam under the heatbed can be removed only after the calibration process is completed.

## Remove the lead screw protectors

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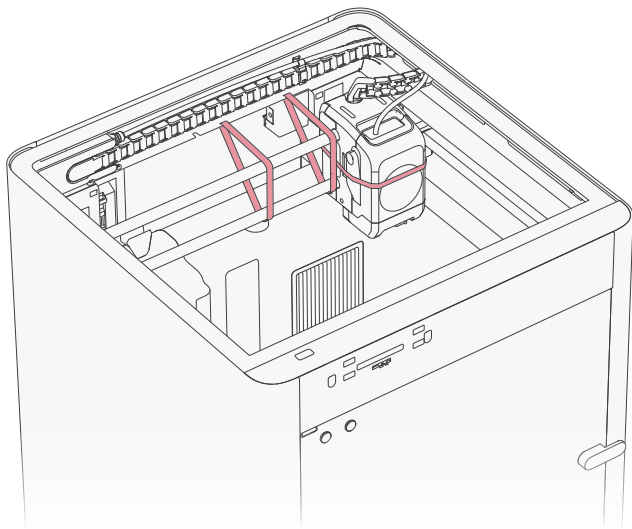


Pull down the red plastic protectors at the top of both left and right Z-axis lead screws, open and remove them.

During this operation, you may notice the Z-axis lead screws moving. This behavior is expected and does not indicate a problem.

## Unlock the toolhead

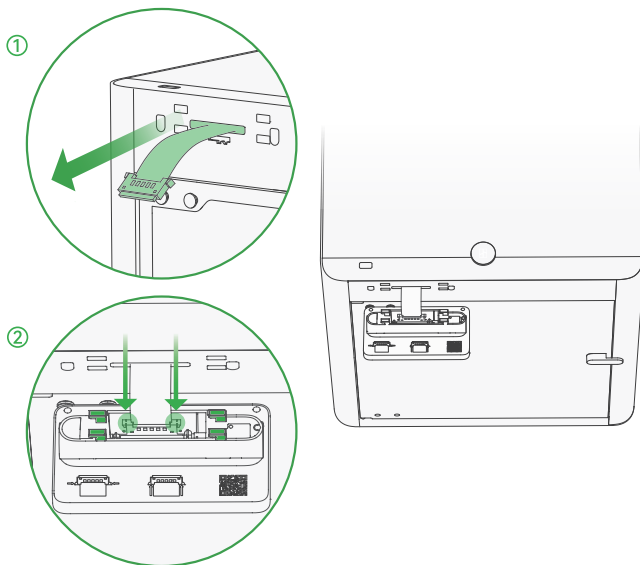
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Cut and remove all zip ties, then place the glass top cover onto the printer.

## Install the touchscreen

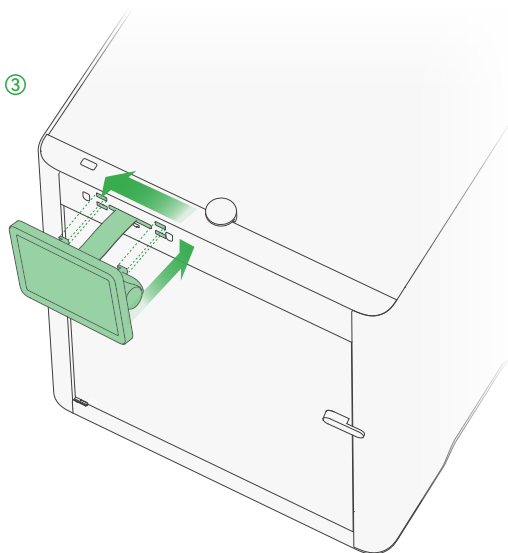
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1. Remove the tape and gently pull the flexible cable out about 50 mm.
2. Take the touchscreen and orient it as pictured. Then press the terminals on both sides of the flexible cable and insert it into the screen port.

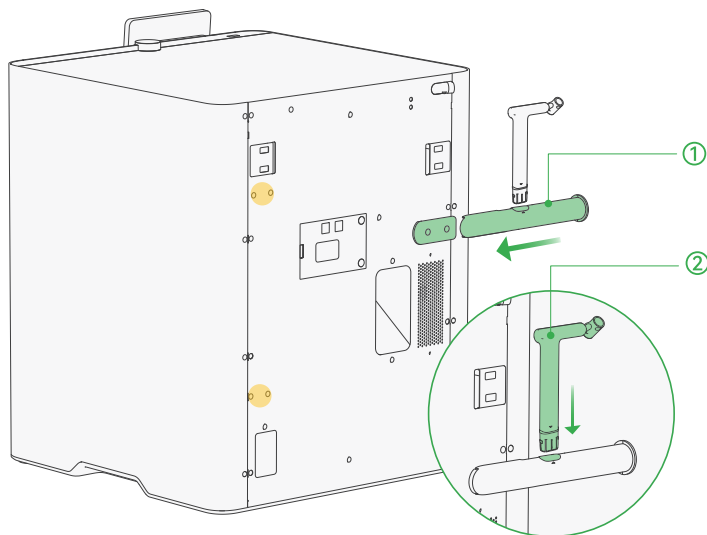
## Install the touchscreen

---



3. Push the flexible cable back into the printer slot. Then insert the screen and slide left to lock.

## Install the spool holder assembly



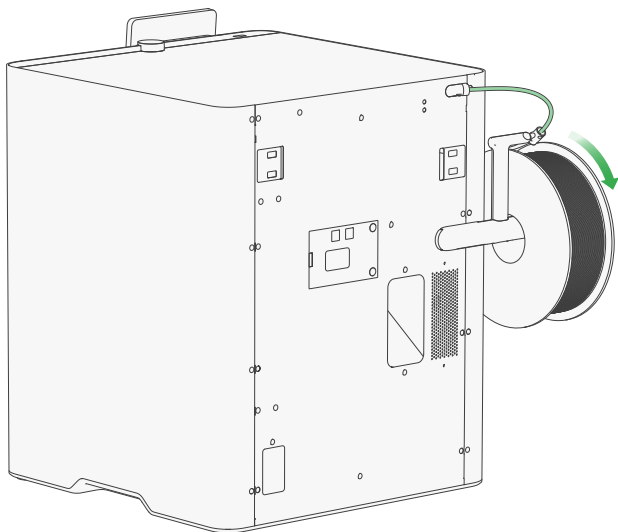
1. Take out the spool holder and PTFE tube holder. Slide the spool holder into the base plate until you hear a click.
2. Align the PTFE tube holder with the slot on the spool holder as pictured, and insert it vertically until you hear a click.

\*The spool holder base plate is pre-installed in the recommended position. Two additional positions, marked in yellow in the image, are also available. You can adjust the base plate and PTFE tube length as needed.



## Use the external spool

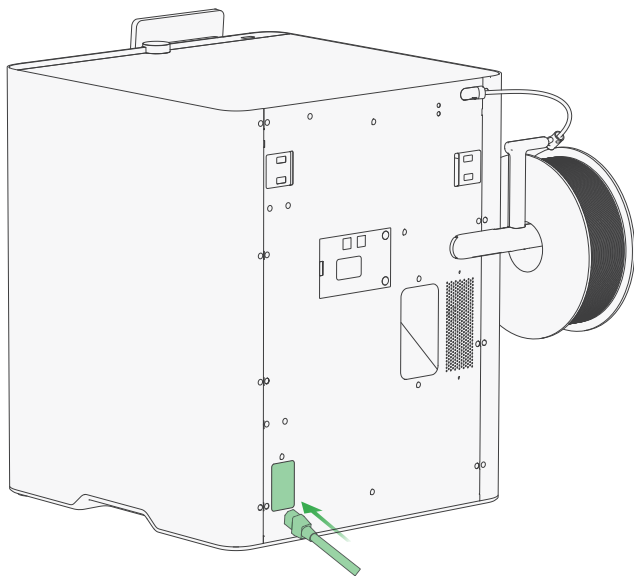
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Take the short PTFE tube, connect one end to the spool holder's connector and the other to the printer's, pushing until secure. Feed the filament through the tube until it reaches the extruder and stops.

## Plug in the power cable and power on

---



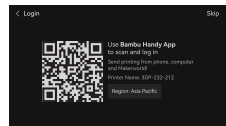
Before powering on, ensure the voltage label near the power socket matches your region. Then, connect the power cord and switch on the power.

## Bind the printer - Bambu Handy

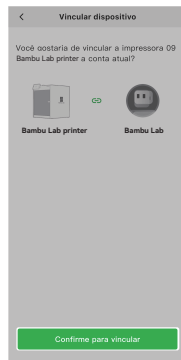
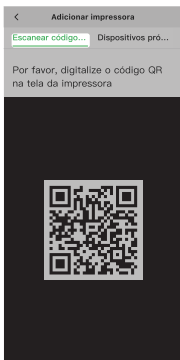
1. Scan the QR code on the right to download Bambu Handy.  
Register and log in to your Bambu Lab account.



2. Follow the instructions on the screen until a QR code appears.



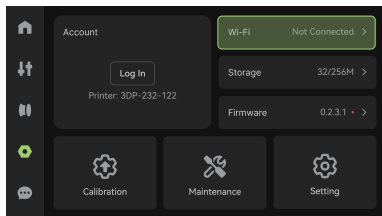
3. Scan the QR code on Bambu Handy to bind the printer to your Bambu Lab account.



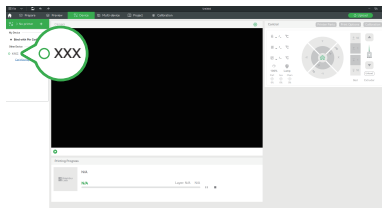
4. Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.

\* DO NOT remove the foam under the heatbed until calibration is complete.

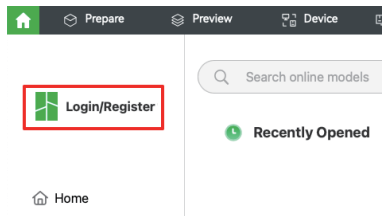
## Bind the printer - Bambu Studio



1. Connect both the computer and printer to the **same wireless network**, and do not use a **guest network** that has network device separation enabled.

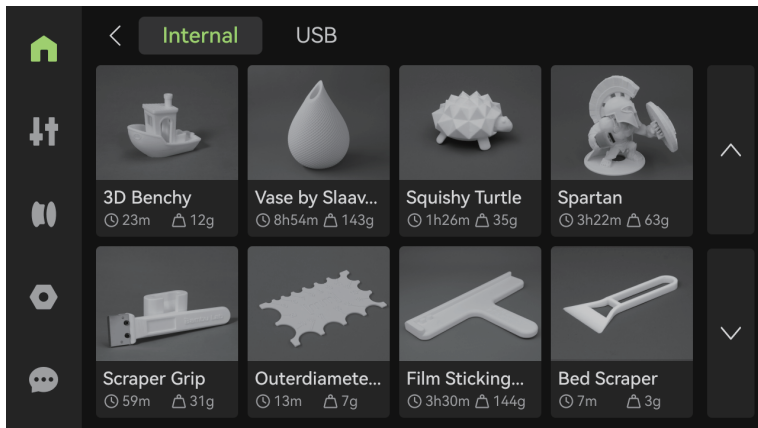



3. Click "+" on the device page, and Bambu Studio automatically discovers printers on the same network. Click the detected printer to bind it to your Bambu Lab account.



2. Visit the link below to download and install Bambu Studio. Register and log in to your Bambu Lab account.  
[bambulab.com/download/studio](https://bambulab.com/download/studio)

## First internal model print



Select  - Print Files, then select a model you wish to print and follow the on-screen steps .

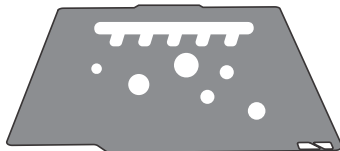
\* The textured PEI plate that comes with the printer is sensitive to dirt and oil. If you have touched the surface of the plate with your hands, oils from your hands can transfer to the surface and impact the plate's adhesion properties. It is recommended to wash it with hot water and detergent first to ensure the best adhesion.

## After-print notes

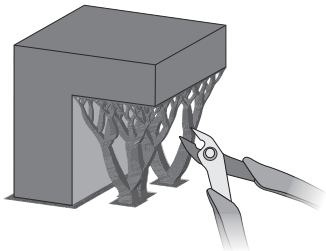
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Wait until the build plate fully cools down to remove prints.



Wash the build plate regularly with hot water and detergent for best adhesion.



If there is a support structure used, remove it as soon as possible after taking out the print. It will be harder to remove if the filament absorbs moisture.

## Regular maintenance

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A 3D printer has a complex mechanical structure and numerous moving parts. Regular maintenance is essential to ensure stable operation and high-quality prints.

### Metal Moving Parts:

- Lubricate lead screws, linear rods, idler pulleys, and extruder gears regularly to prevent rust.
- Use lubricating oil for linear rods and idler pulleys, and apply lubricating grease to lead screws and extruder gears.

### Consumables:

- Inspect plastic and rubber parts, such as filament cutters, for signs of wear, deformation, or aging.
- Replace consumable parts as needed, such as nozzle wipers and PTFE tubes, to maintain print quality.

### Other Components:

- Check camera lenses, fans, and filament sensors for dust or debris.
- Clean fans regularly, and gently clean camera lenses using a microfiber cloth with isopropanol or anhydrous alcohol for optimal clarity.



[bambulab.com/support/p2s/maintenance](https://bambulab.com/support/p2s/maintenance)

Please refer to the "Regular Maintenance Recommendations" section on our wiki for more information.

# Printer specifications

Item		Specification
Printing Technology		Fused Deposition Modeling
Body	Build Volume (W*D*H)	256*256*256 mm <sup>3</sup>
	Chassis	Plastic and Steel
	Outer Frame	Plastic and Glass
Physical Dimensions	Physical Dimensions	392*406*478 mm <sup>3</sup>
	Net Weight	14.9 kg
Toolhead	Extruder Gear	Hardened Steel
	Nozzle	Hardened Steel
	Max Nozzle Temperature	300 °C
	Included Nozzle Diameter	0.4 mm
	Supported Nozzle Diameter	0.2 mm, 0.4 mm, 0.6 mm, 0.8 mm
	Filament Cutter	Built-in
	Filament Diameter	1.75 mm
	Extruder Motor	Bambu Lab High-precision Permanent Magnet Synchronous Motor
Heatbed	Build Plate Material	Flexible Steel Plate
	Included Build Plate Type	Textured PEI Plate
	Supported Build Plate Type	Textured PEI plate, Smooth PEI Plate, Cool Plate SuperTack
	Max Heatbed Temperature	110 °C



Printer specifications

Item		Specification
Speed	Max Speed of Toolhead	600 mm/s
	Max Acceleration of Toolhead	20,000 mm/s <sup>2</sup>
	Max Flow for Hotend	40 mm <sup>3</sup> /s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 °C printing temperature)
Air Purification	Activated Carbon Filter	Supported
	VOC Filtration	Supported
	Particulate Matter Filtration	Supported
Cooling	Part Cooling Fan	Closed Loop Control
	Hotend Cooling Fan	Closed Loop Control
	Auxiliary Part Cooling Fan	Closed Loop Control
Filament Supported	PLA, PETG, ABS, ASA, TPU, Support for PLA, Support for PLA/PETG, Support for ABS, PET, PA, PC, PVA, PLA-CF, PETG-CF, ABS-GF, ASA-CF, PA6-CF, PA6-GF, PAHT-CF, PPA-CF, PET-CF	

# Printer specifications

Item		Specification
Sensor	Live View Camera	Built-in; 1920*1080
	Door Sensor	Supported
	Filament Run Out Sensor	Supported
	Filament Tangle Sensor	Supported
	Filament Odometry	Supported with AMS
	Power Loss Recovery	Supported
Electrical Requirements	Voltage	100-120 VAC / 200-240 VAC, 50/60 Hz
	Max Power*	1200 W@220 V / 1000 W@110 V
	PLA Steady-State Power	200 W@220 V / 200 W@110 V (PLA printing)
Working Temperature		10 °C - 30 °C
Electronics	Touchscreen	5-inch 854*480 Touchscreen
	Storage	Built-in 8 GB EMMC and USB Port
	Control Interface	Touchscreen, mobile App, PC App
	Motion Controller	Dual-core Cortex-M4 and Single-core Cortex-M7
	Application Processor	Quad-core ARM with dedicated NPU
Software	Slicer	Bambu Studio Supports third-party slicers which export standard G-code, such as Super Slicer, PrusaSlicer and Cura, but certain advanced features may not be supported.
		Supported Operating System MacOS, Windows, Linux

# Printer specifications

Item		Specification
Network Control	Ethernet	Not Available
	Wireless Network	Dual-Band Wi-Fi
	Network Kill Switch	Not Available
	Removable Network Module	Not Available
	802.1X Network Access Control	Not Available
Wi-Fi	Operating Frequency	2412 - 2472 MHz, 5150 - 5850 MHz (FCC/CE) 2400 - 2483.5 MHz, 5150 - 5850 MHz (SRRC)
	Wi-Fi Transmitter Power (EIRP)	2.4 GHz: < 23 dBm (FCC); < 20 dBm (CE/SRRC/MIC) 5 GHz Band1/2: < 23 dBm (FCC/CE/SRRC/MIC) 5 GHz Band3: < 30 dBm (CE); < 24 dBm (FCC) 5 GHz Band4: < 23 dBm (FCC/SRRC); < 14 dBm (CE)
	Wi-Fi Protocol	IEEE 802.11 a/b/g/n

\* To ensure the heatbed quickly reaches the needed temperature, the printer will maintain maximum power for about 3-5 minutes.

## Technical support

If you need technical support, please follow any of the following methods:

Method 1: Visit the Bambu Lab Wiki for tutorials and maintenance guidance.

[wiki.bambulab.com/home](https://wiki.bambulab.com/home)

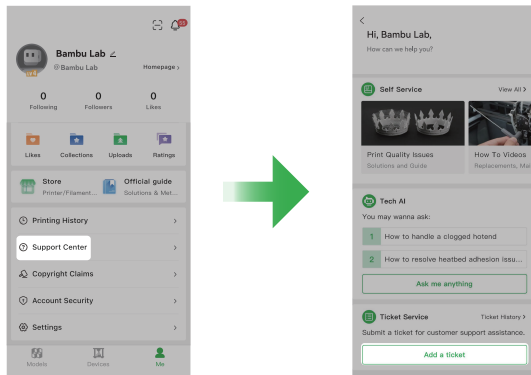


Method 2: Get in touch through one of the options listed in the Contact Us section of our Support Center.

[bambulab.com/support](https://bambulab.com/support)



Method 3: Create a support ticket on Bambu Handy, from the Support Center section.











**Bambu Lab**

**Enjoy!**

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