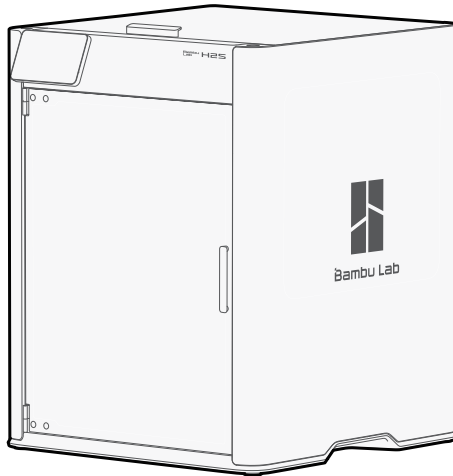# Bambu Lab H2S
Quick Start Guide

Please review the entire guide before using the product.

Safety notice: 1. Do not connect to power until the assembly is complete.

2. Two or more people are needed to carry the printer due to its heavy weight.

Video Guide

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

bambulab.com/h2s-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 or computer.

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

Get help

Scan the QR code to visit our support center, contact technical support, and access more useful tutorials.
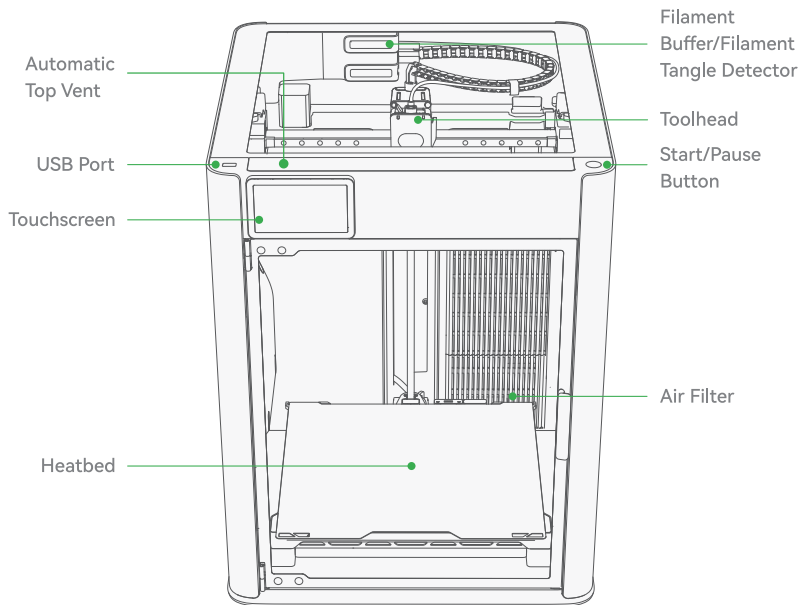
bambulab.com/support

Read before use

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 "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.
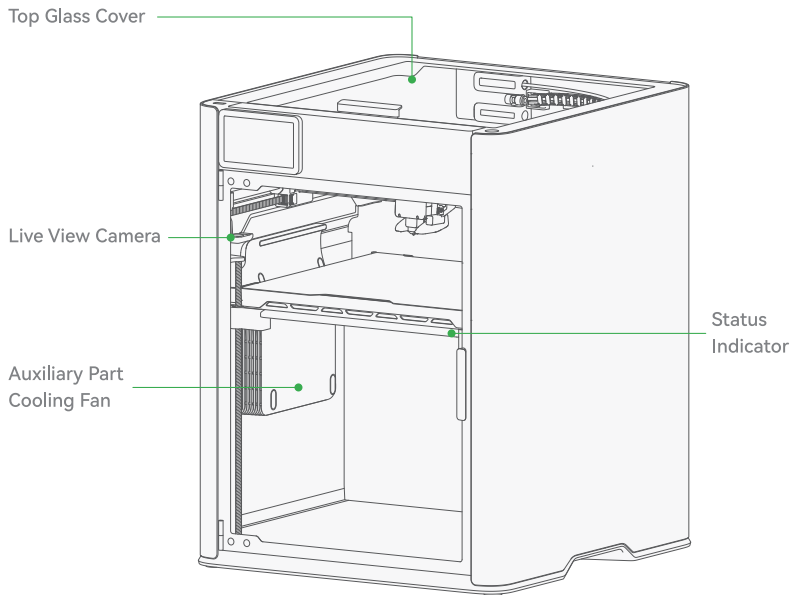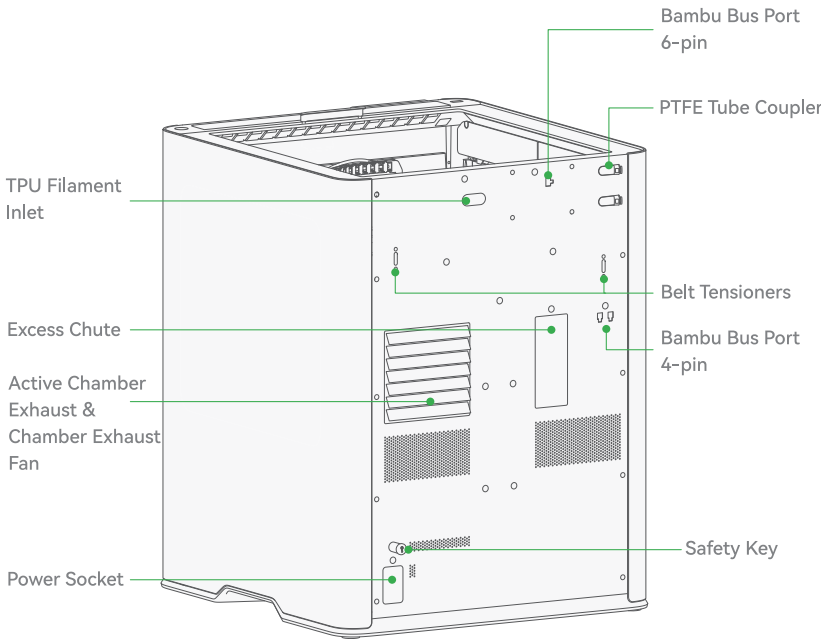
Printer component introduction

Filament Buffer/Filament Tangle Detector
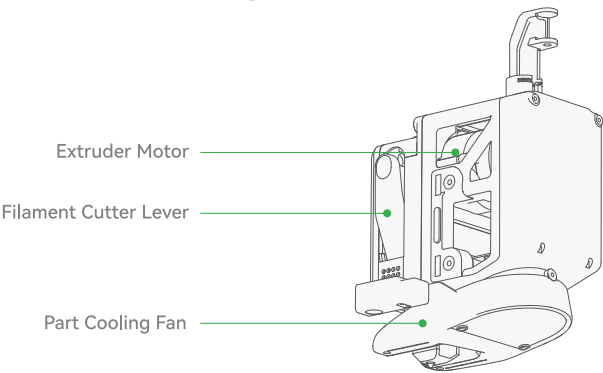
Automatic Top Vent

Toolhead

USB Port

Start/Pause Button

Touchscreen

Air Filter

Heatbed

Printer component introduction

Top Glass Cover

Live View Camera

Auxiliary Part
Cooling Fan

Status
Indicator

Printer component introduction

- Bambu Bus Port 6-pin
- PTFE Tube Coupler
- TPU Filament Inlet
- Belt Tensioners
- Excess Chute
- Bambu Bus Port 4-pin
- Active Chamber Exhaust & Chamber Exhaust Fan
- Safety Key
- Power Socket

Toolhead component introduction

Toolhead Interface & Dust-proof cover

Filament Inlet

Toolhead Front Cover

Rotating Wheel

Hotend Cooling Fan

Toolhead Camera

Hotend

Extruder Motor

Filament Cutter Lever

Part Cooling Fan
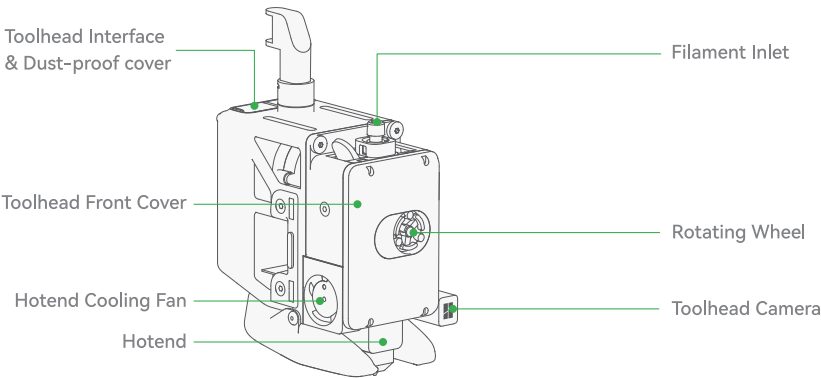
Included accessories

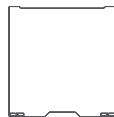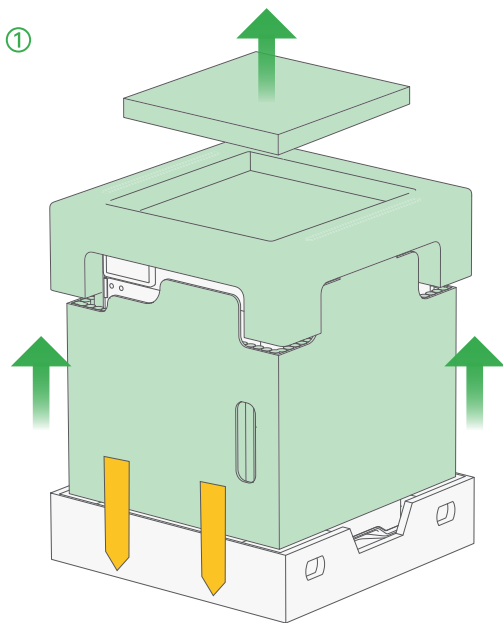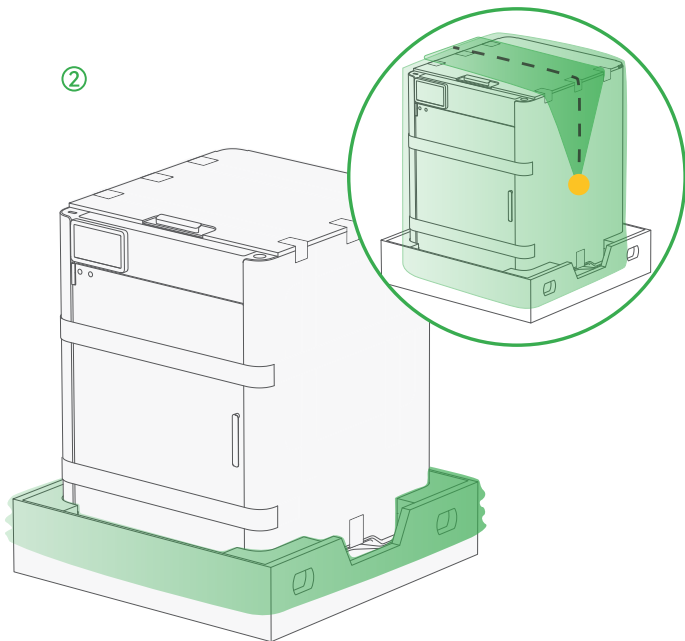|				
Spool Holder	Filament Cutter	Wiping Pad	Nozzle Wiper	Power Cord
Unclogging Pin	Allen Key H1.5 Allen Key H2.0	PTFE Tube	Safety Key	Build Plate (Pre-installed on heatbed)
Lubricant Grease & Lubricant Oil	Scraper Blade			

①

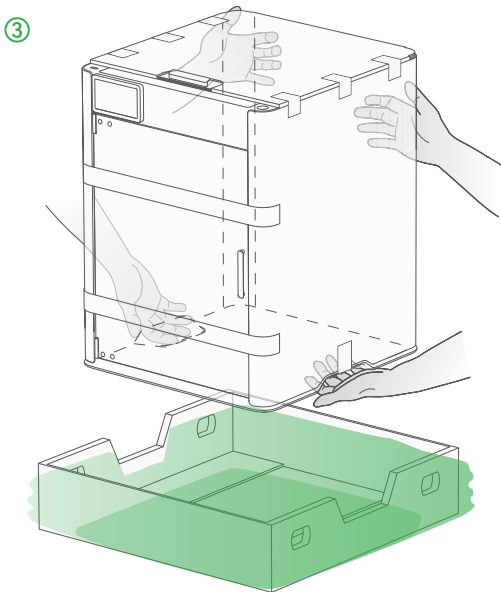Take out the accessory box, and remove the surrounding cardboard, foam and tape.

Remove the package

Remove the stickers from the sides and top opening of the moisture-proof bag. Then, pull the bag downward and fold it over all four corners of the bottom cardboard.
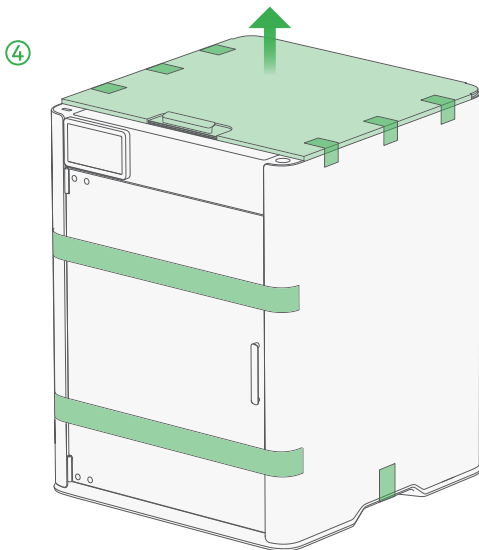
Remove the package

③

TEAM LIFT

FOR YOUR SAFETY

WARNING

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

As shown in the picture, ensure the bottom cardboard stays in place. With two people, carefully lift the printer out of the cardboard and moisture-proof bag, and place it on a stable surface.
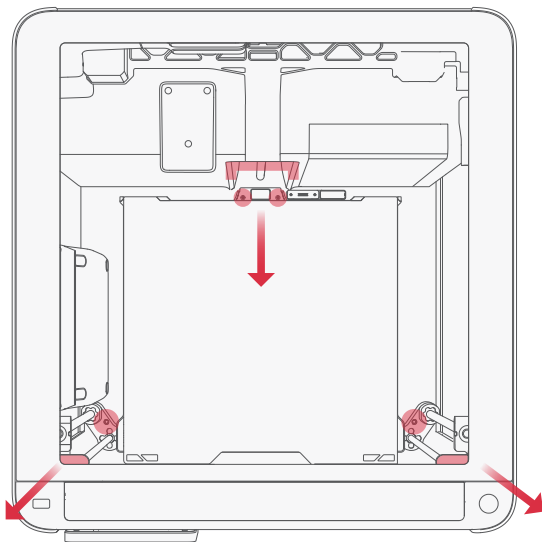
Remove the package

Remove the adhesive tapes and other packaging materials, then take out the top glass cover and and set it aside.
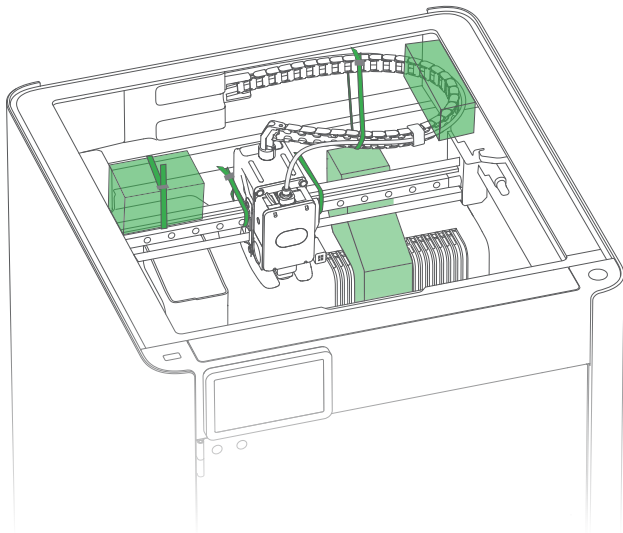
Unlock the heatbed

Use the H2.0 allen key to remove the 4 screws marked in red, and then remove the foams marked in red securing the lead screws.
The foam under the heatbed should be removed after calibration.

Unlock the toolhead
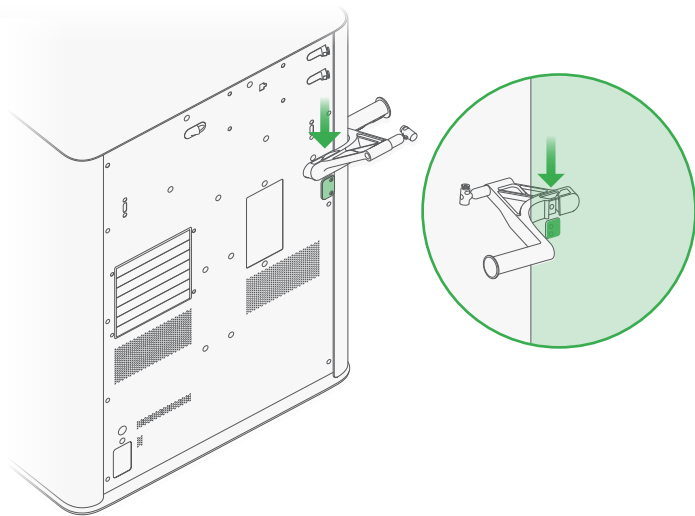
① Cut and remove all zip ties.
② Take out the box containing the power cord, Then, pull the toolhead towards the front door, and remove the foam pieces marked in green.
③ Remove other foam pieces and tapes marked for removal inside the chamber.

Install the spool holder

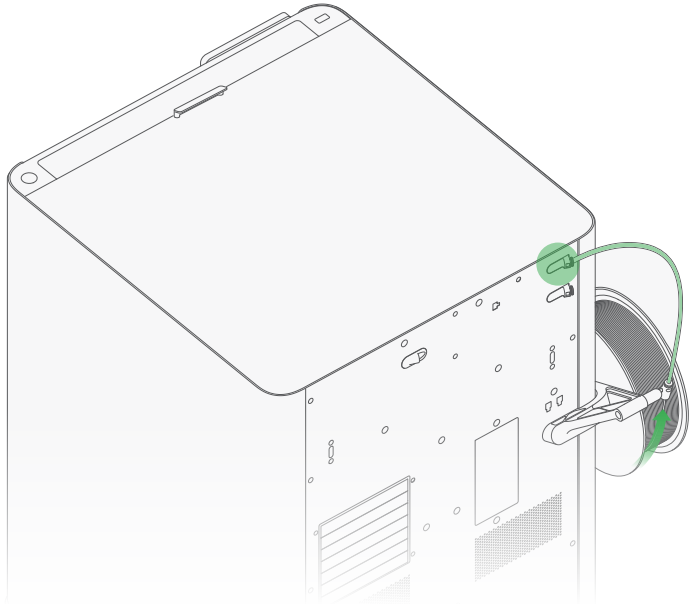Take out the spool holder from the accessory box. Slide in the spool holder in the direction shown above.

Load filament from an external spool

Connect one end of the PTFE tube to the spool holder's PTFE tube coupler and the other end to the printer's coupler, pushing it in until it stops. Next, insert the filament into the PTFE tube and continue pushing until it enters the extruder and can no longer move forward.

Install the safety key
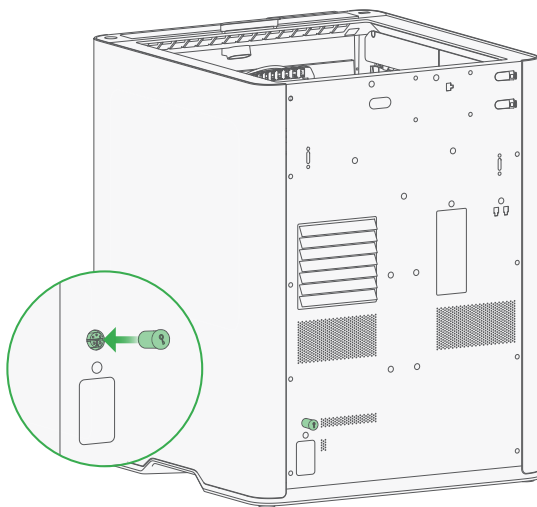
Take out the safety key on the rear panel, and insert it into the installation slot located above the power socket.
Please do not skip this step, as the printer cannot be powered on without it.

Plug the power cord in the power socket on the back. Then, turn on the power switch.
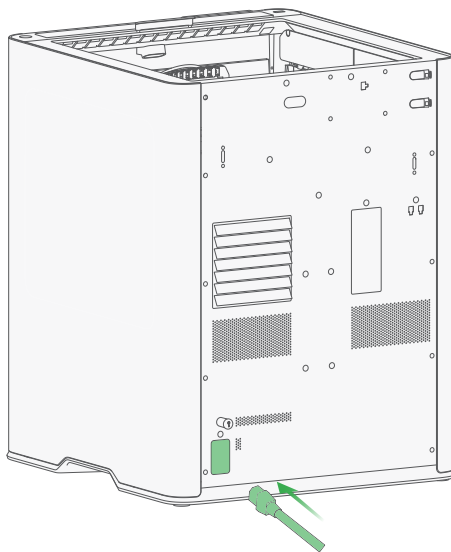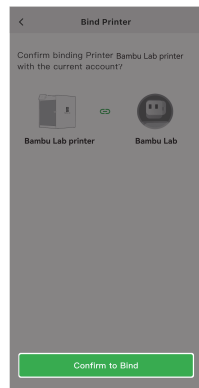
Bind the printer – Bambu Handy

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

Download Bambu Handy

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

Use Bambu Handy App to scan and log in
Send printing from phone, computer and Makerworld!
Printer Name: SOP-232-212
Region: Asia Pacific

3. Scan the QR code on Bambu Handy to bind the printer to your Bambu Lab account.
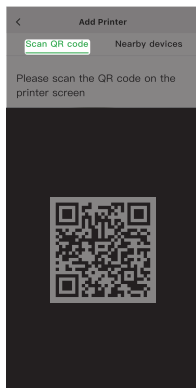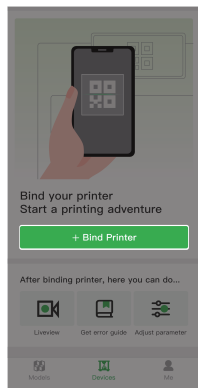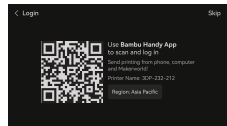
4. Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.
* DO NOT remove the foam under the heatbed until calibration is complete.

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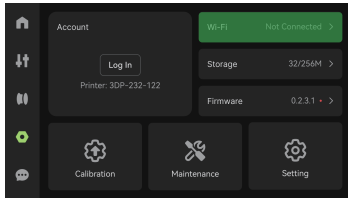
1. Connect both the computer and printer to the **same wireless network**, and do not use a **guest network** that has network device separation enabled.

2. Visit the link below to download and install Bambu Studio. Register and log in to your Bambu Lab account.
   bambulab.com/download/studio

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.

First print

Select 🏠 - Print Files, then select a model you wish to print.

* 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

Wait until the build plate fully cools down to remove prints.
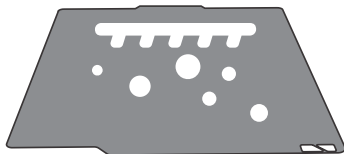
Wash the build plate regularly with hot water and detergent for best adhesion.
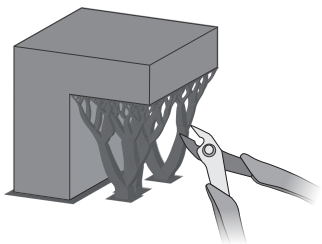
If there is a support structure used, remove it as soon as possible after taking down the print. It will be harder to remove if the filament absorbs moisture.

Regular maintenance

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, guide rails, idler pulleys, and extruder gears regularly to prevent rust.
- Use lubricating oil for guide rails, 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; gently clean camera lenses using a microfiber cloth dipped in isopropyl or dehydrated alcohol for optimal clarity.

bambulab.com/support/maintenance

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

Specifications

Item		Specification
Printing Technology		Fused Deposition Modeling
Body	Build Volume (W*D*H)	340*320*340 mm³
	Chassis	Aluminum and Steel
	Outer Frame	Plastic and Glass
Physical Dimensions	Physical Dimensions	492*514*626 mm³
	Net Weight	30 kg
Toolhead	Extruder Gear	Hardened Steel
	Nozzle	Hardened Steel
	Max Nozzle Temperature	350 ℃
	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
	Max Heatbed Temperature	120 ℃
Speed	Max Speed of Toolhead	1000 mm/s
	Max Acceleration of Toolhead	20,000 mm/s²
	Max Flow for Hotend (Standard Flow Hotend)	40 mm³/s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 ℃ printing temperature)
Chamber Temperature Control	Active Chamber Heating	Supported
	Max Temperature	65 ℃
Air Purification	Pre-filter Grade	G3
	HEPA Filter Grade	H12
	Activated Carbon Filter Type	Granulated Coconut Shell
	VOC Filtration	Superior
	Particulate Matter Filtration	Supported

Specifications

|		
Cooling	Part Cooling Fan	Closed Loop Control
	Cooling Fan for Hotend	Closed Loop Control
	Main Control Board Fan	Closed Loop Control
	Chamber Exhaust Fan	Closed Loop Control
	Chamber Heat Circulation Fan	Closed Loop Control
	Auxiliary Part Cooling Fan	Closed Loop Control
Filament Supported	PLA, PETG, TPU, PVA, BVOH, ABS, ASA, PC, PA, PET; Carbon/Glass Fiber Reinforced PLA, PETG, PA, PET, PC, ABS, ASA, PPA, PPS, PPS	
Sensor	Live View Camera	Built-in; 1920*1080
	Toolhead Camera	Built-in; 1600*1200
	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*	2050 W@220 V / 1170 W@110 V
Working Temperature		10 ℃ -30 ℃
Electronics	Touchscreen	5-inch 720*1280 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 1.5 GHz ARM A7
	Neural Processing Unit	2 TOPS
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

Specifications

Network Control	Ethernet	Not Available
	Wireless Network	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 (CE/FCC), 2400–2483.5 MHz (SRRC) 5150–5850 MHz
	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 minutes.
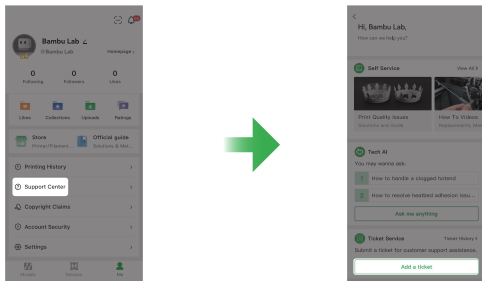
Technical Support

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

Method 1: Get in touch by using the Contact Us button in our Support Center.
bambulab.com/support
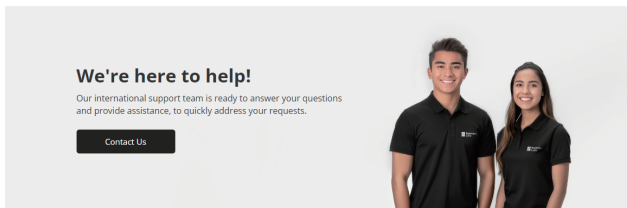
Method 2: Create a support ticket on Bambu Handy, from the Support Center section.

You can also visit the Bambu Lab Wiki for more tutorials and maintenance guidance.
wiki.bambulab.com/home

Bambu Lab Wiki

Bambu Lab

Enjoy!