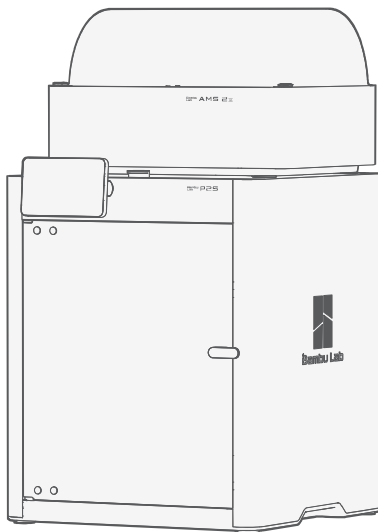


Bambu Lab P2S AMS Combo

Quick Start Guide

Please review the entire guide before using the product.

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



FP004-U SA007



Unboxing Guide

Scan the QR code to access our online guides for details on how to unbox, assemble, set up the printer and start your first print.

bambulab.com/support/unboxing



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.cn/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.cn



Get help

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

bambulab.cn/support

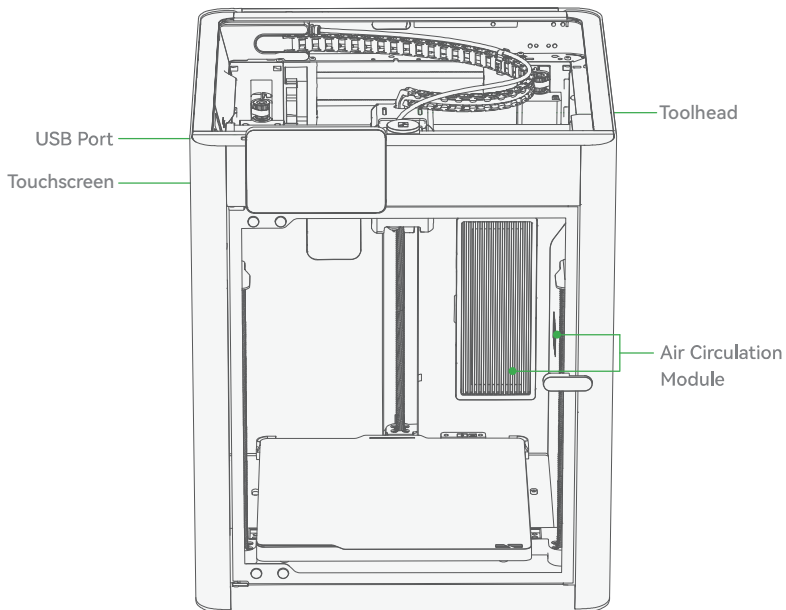
Read before use



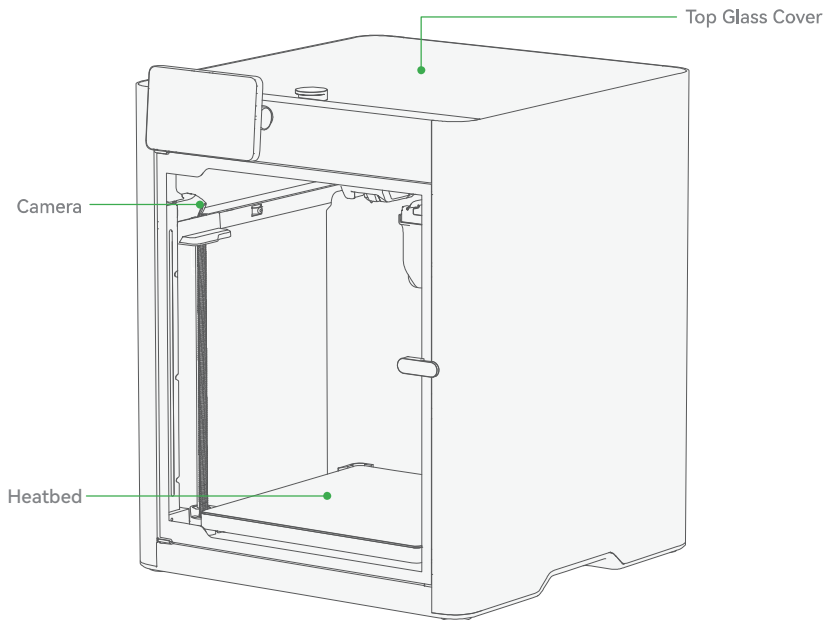
To ensure safety and optimal performance, please follow these guidelines:

- 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.
- **Do not feed TPU filament through the filament buffer; connect it directly to the toolhead for printing.**
- **To prevent the filament getting stuck, do not use flexible filaments such as TPU with a hardness level of 95A or lower, or damp PVA and BVOH, in the AMS 2 Pro.**
- The AMS 2 Pro supports a spool width between 50 mm to 68 mm and a diameter between 197 mm to 202 mm. We recommend using plastic spools.
- AMS 2 Pro supports standby drying powered directly by the printer, during which printing functions will be paused. To enable drying while printing, please purchase the official Bambu power adapter.
- During the filament drying process, the AMS 2 Pro removes moisture through external air circulation via the air inlets. Please ensure the air intake and vent are not blocked, to ensure optimum drying efficiency.

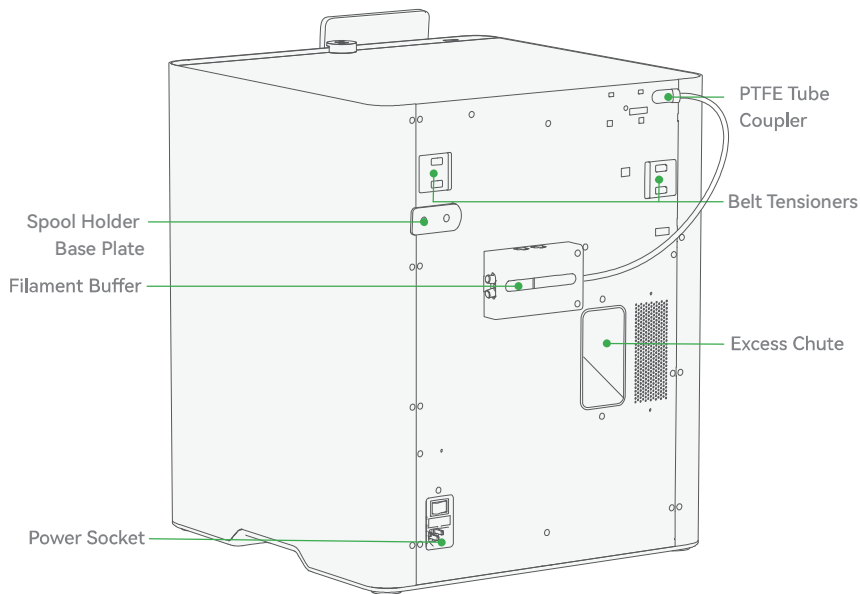
Printer component introduction



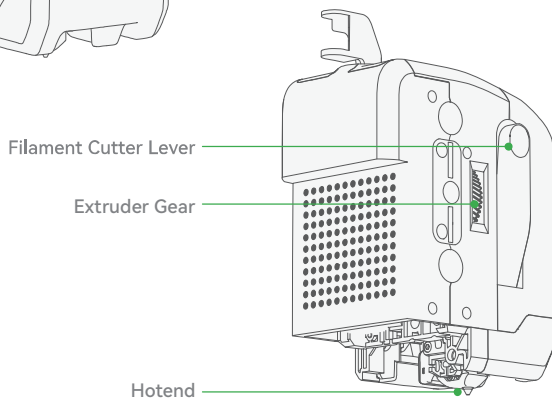
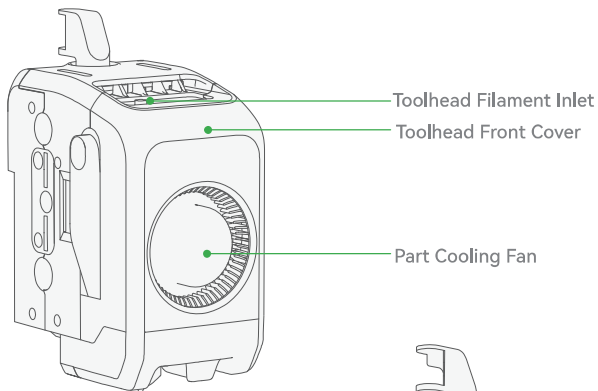
Printer component introduction



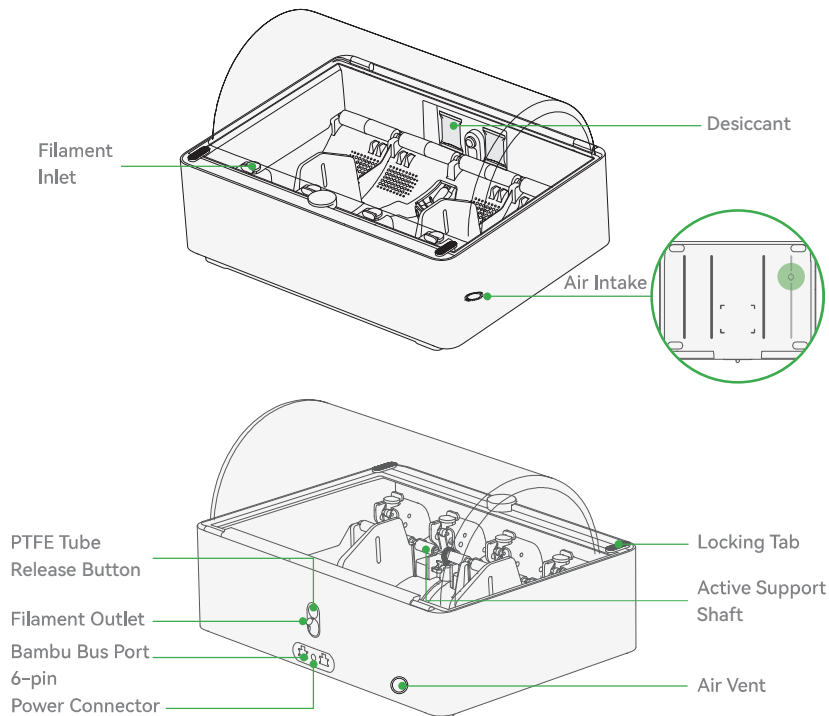
Printer component introduction



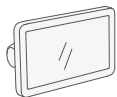
Toolhead component introduction



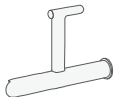
AMS 2 Pro component introduction



Included accessories



Touchscreen



Spool Holder



Filament Cutter



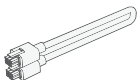
Nozzle Wiping
Pad



Hotend Silicone
Sock



Power Cord



Bambu Bus
Cable 6-pin



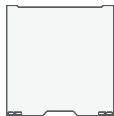
Allen Key H1.5
Allen Key H2.0



Unlogging Pin



PTFE Tube × 2



Build Plate
(Pre-installed
on heatbed)



Lubricant Grease &
Lubricant Oil



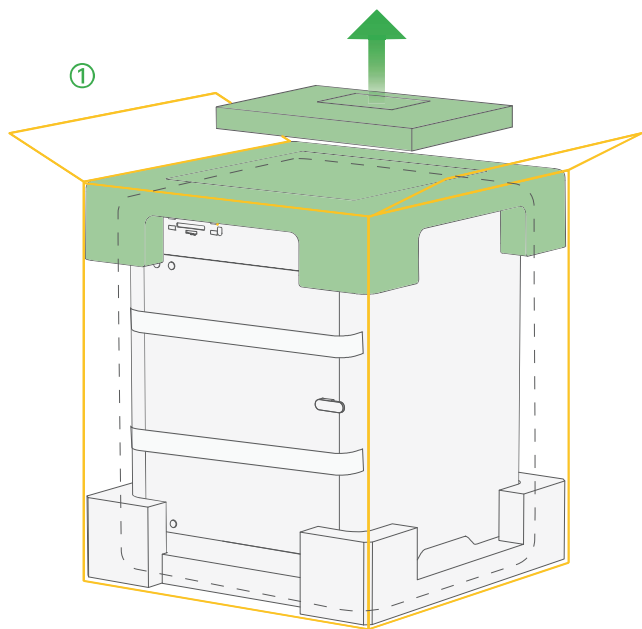
Scraper Blade



Desiccant

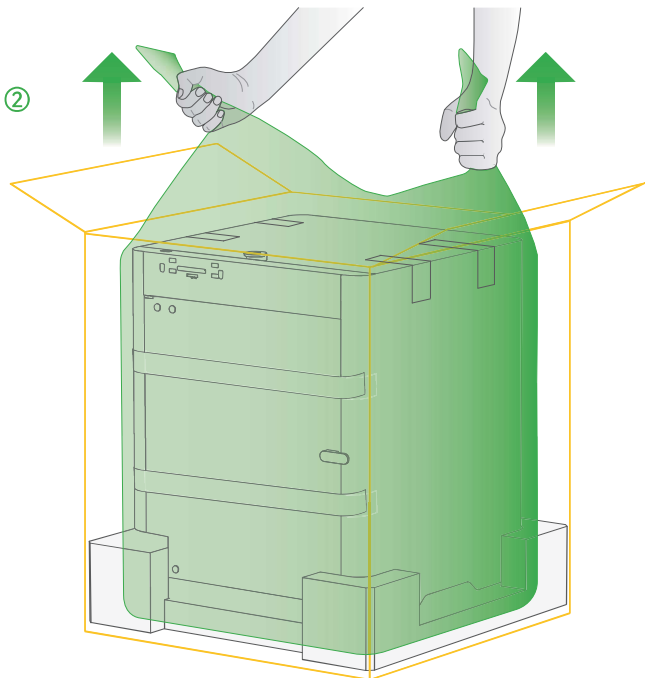
Remove the package

Keep packaging materials and screws for shipping.



Open the packaging box, take out the Toolbox and quick start guide, and remove the surrounding cardboard and foam.

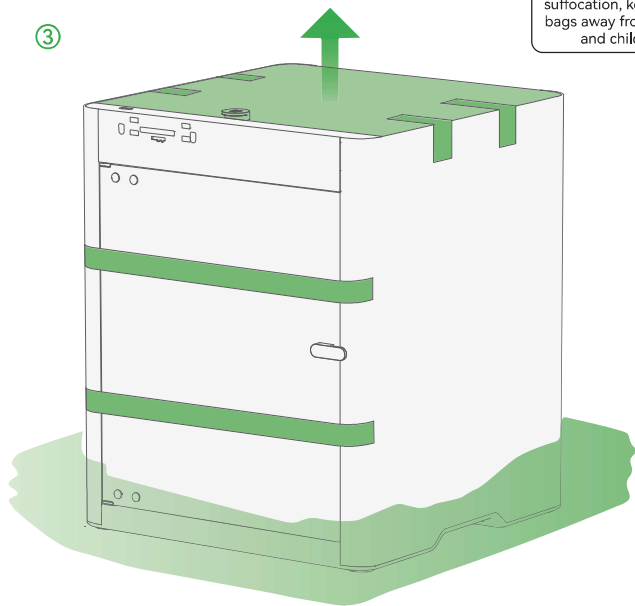
Remove the package



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

Remove the package

③

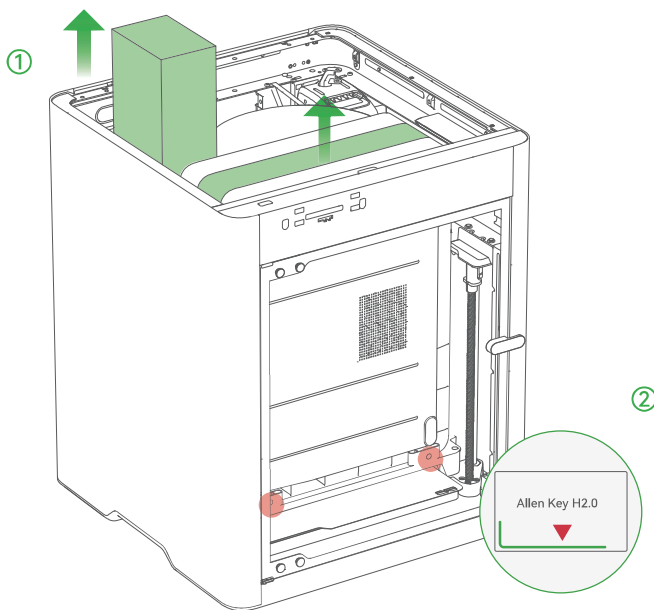


WARNING

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

Remove the moisture-proof bag and the adhesive tapes, then take out the top glass cover and set it aside.

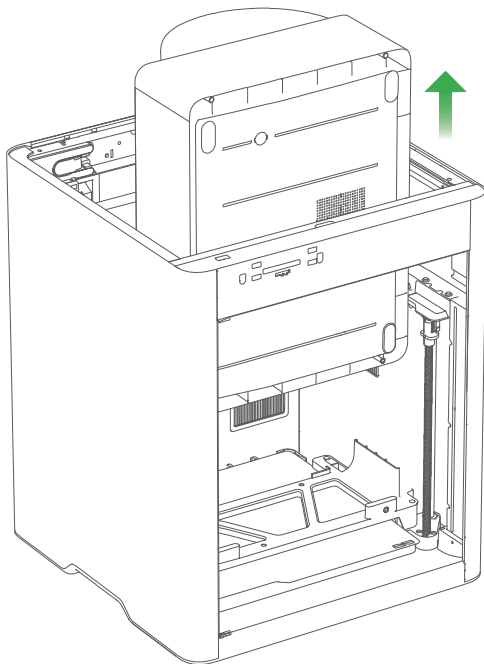
Unlock the AMS 2 Pro



- ① Take out the accessory box and remove the top foam.
- ② Open the door, then use the longer H2.0 allen key from the toolbox to remove the 2 screws marked in red.

Unlock the AMS 2 Pro

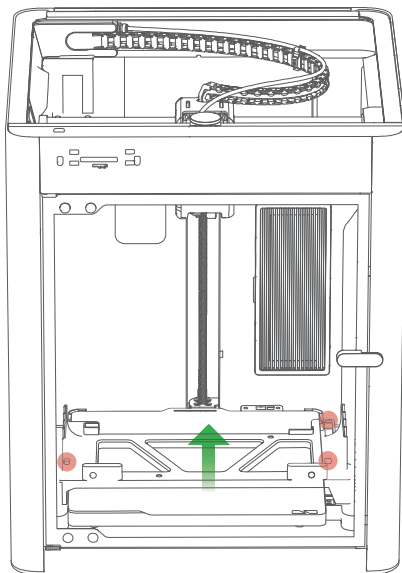
③



③ Lift the AMS 2 Pro out.

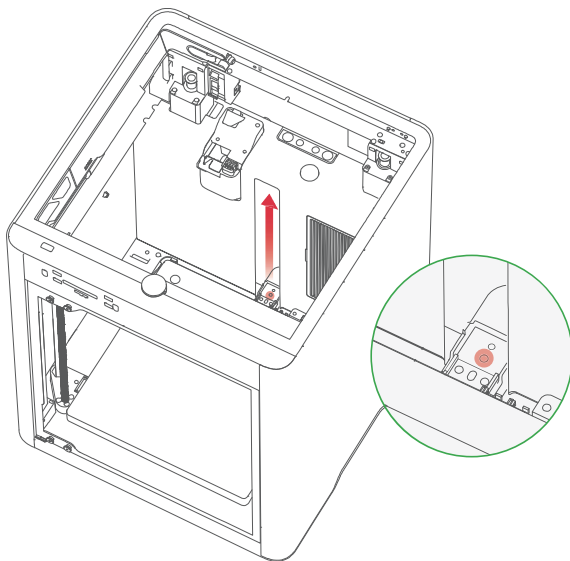
Unlock the AMS 2 Pro

④



④ Use the H2.0 allen key to remove the 3 screws marked in red. Then, take out the transport fixture and the nearby foam (**except the foam under the heatbed**).

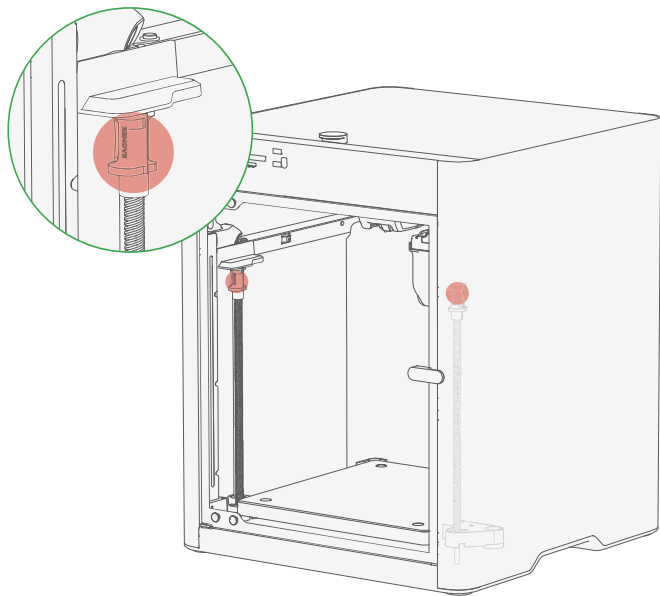
Unlock the heatbed



Use the H2.0 allen key to remove the screw marked in red to unlock the heatbed.

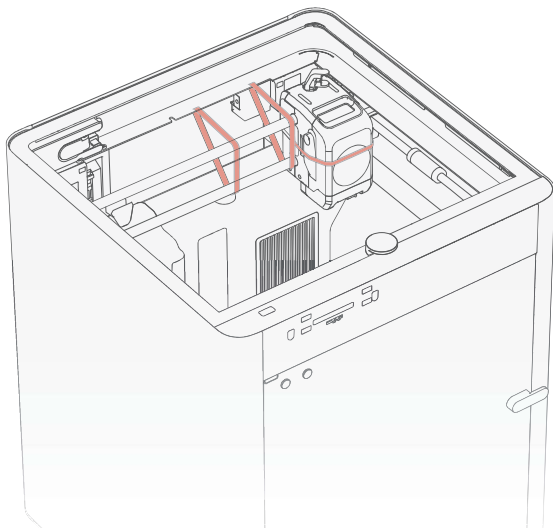
Remove the foam under the heatbed after the calibration.

Remove the leadscrew protectors



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

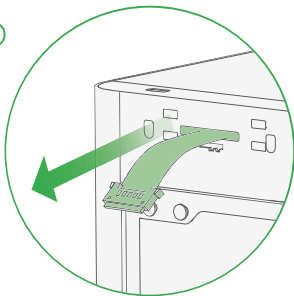
Unlock the toolhead



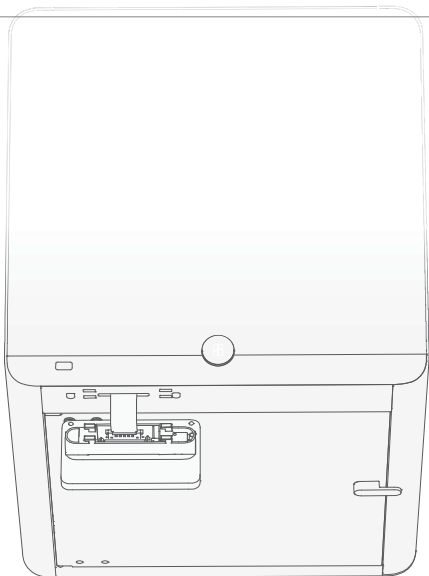
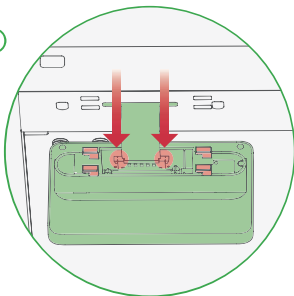
Cut and remove all zip ties.

Install the Touchscreen

①



②

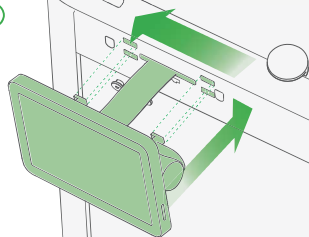


① Pull the flexible printed circuit (FPC) out about 50 mm.

② Take the screen from the accessory box and orient it as pictured. Then insert the FPC into the screen port by pressing the terminal.

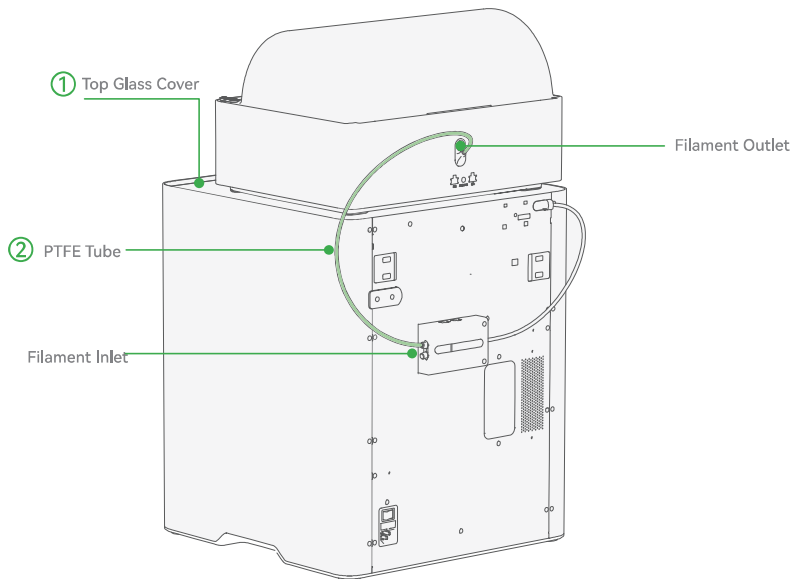
Install the Touchscreen

③



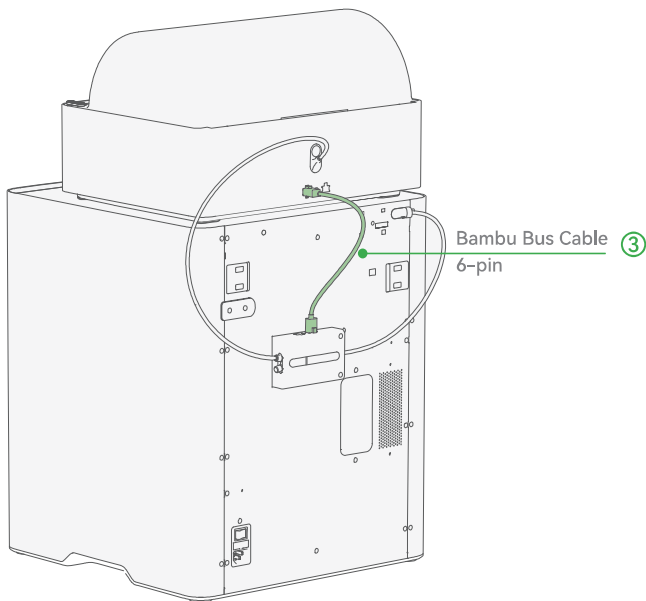
③ Retract the cable into the printer slot. Then insert the screen and slide left to lock.

Install the AMS 2 Pro



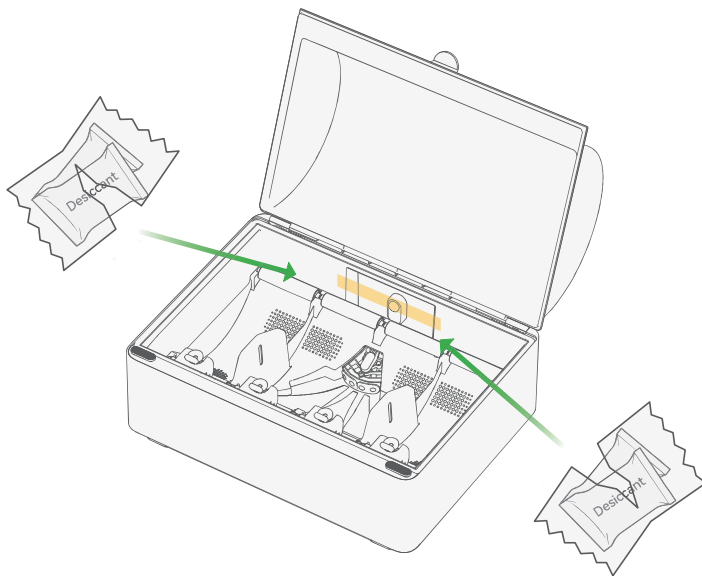
- ① Place the top glass cover and AMS 2 Pro on top of the printer.
- ② Take out the PTFE tube from the accessory box, insert it into the AMS 2 Pro's filament outlet and either PTFE tube coupler of the filament buffer.

Install the AMS 2 Pro



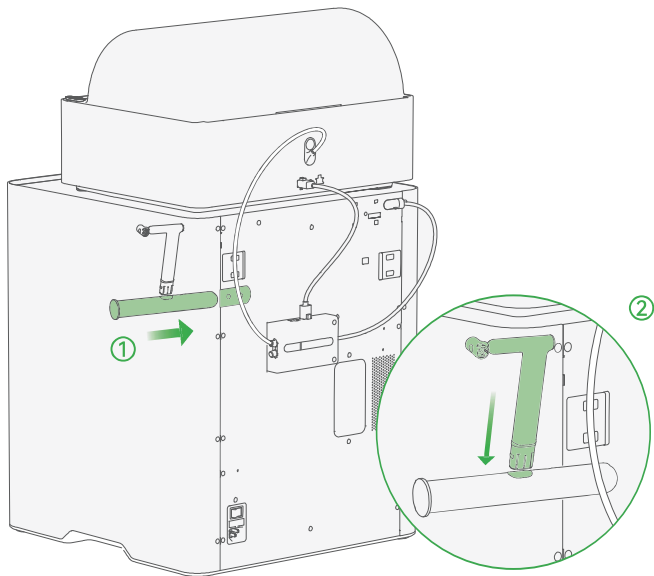
- ③ Take out the Bambu Bus Cable 6-pin from the accessory box, and connect it between either 6-pin ports on the filament buffer and AMS 2 Pro.

Remove the desiccant packaging material



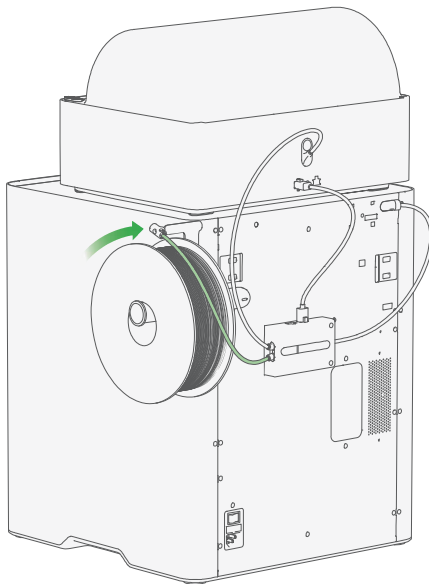
- ① Remove the foam inside.
- ② Remove the tape from the back of the AMS 2 Pro and take out the desiccant packs. Remove the outer plastic packaging material and install 2 packs of desiccant on each side of the empty space.

Install the spool holder



- ① Take the spool holder and PTFE tube holder from the accessory box. Slide the spool holder to the right into the base plate until you hear a click.
- ② Align the PTFE tube holder with the slot on the spool holder as shown, and insert it vertically until you hear a click.

Use the external spool

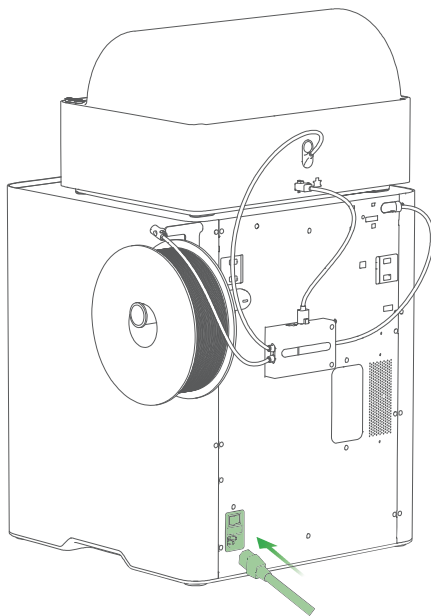


If the printer is connected to the AMS 2 Pro on a coupler, you can feed filament from an external spool using the additional coupler.

Connect one end of the PTFE tube to the spool holder's PTFE tube coupler and the other end to the filament buffer's another coupler.

When using the external spool, insert the filament into the PTFE tube as shown, and continue pushing until it enters the extruder and can no longer move forward.

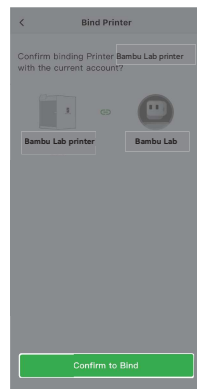
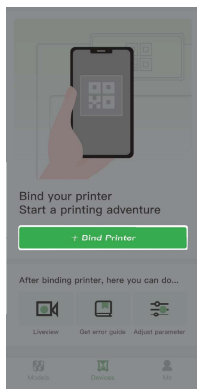
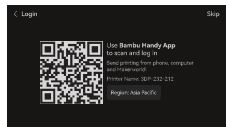
Plug in the power cable and power on



Plug the power cord in the power socket on the back. Then, turn on the power switch.

Bind the printer - Bambu Handy

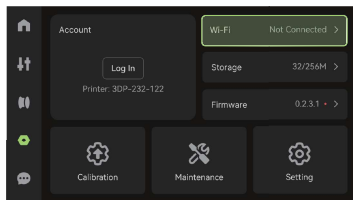
1. Scan the QR code on the right to download Bambu Handy. Register and log in to your Bambu Lab account.
2. Follow the instructions on the screen until a QR code appears.
3. Scan the QR code on Bambu Handy to bind the printer to your Bambu Lab account.



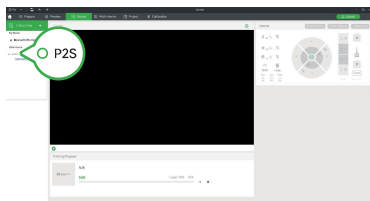
4. Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.

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

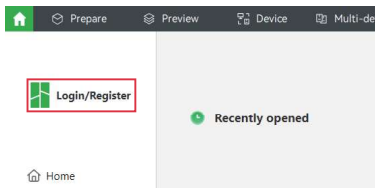
Bind the printer - Bambu Studio



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.

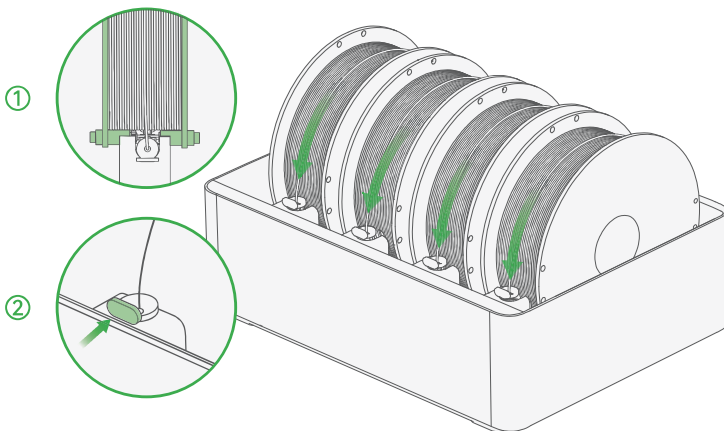


3. Click “+” on the device page, and Bambu Studio automatically discovers printers on the same network. Click the detected printer to bind it to your Bambu Lab account.



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

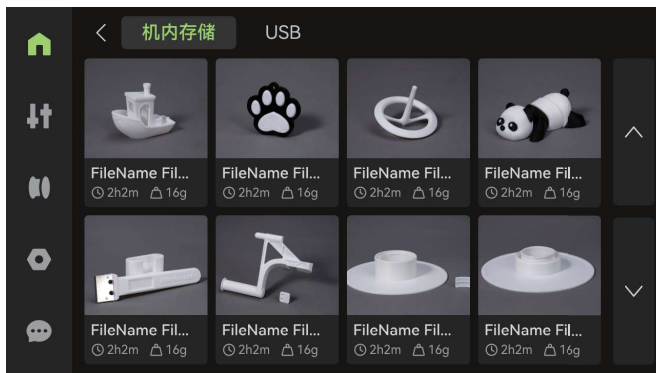
First internal model print with the AMS 2 Pro



- ① Power on the printer and place a spool of filament in any of the four slots. Make sure the spool is correctly placed on the active support shaft as shown in the picture.
- ② Push the feeder tab towards the spool, and insert the filament. The AMS 2 Pro will pre-load it after it is detected. When the feeder LED light under the filament inlet is on, the AMS 2 Pro is ready to print.

First internal model print with the AMS 2 Pro

③



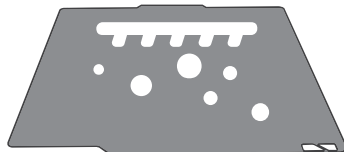
Select  - Print Files, then select a model you wish to print.

* 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.

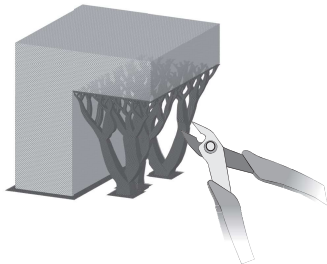
After-print notes



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 out 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, 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 isopropyl 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)	256*256*256 mm ³
	Chassis	Plastic and Steel
	Outer Frame	Plastic and Glass
Physical Dimensions	Physical Dimensions	392*406*478 mm ³
	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
Heatbed	Extruder Motor	Bambu Lab High-precision Permanent Magnet Synchronous Motor
	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	120 °C
Speed	Max Speed of Toolhead	600 mm/s
	Max Acceleration of Toolhead	20,000 mm/s ²
	Max Flow for Hotend	40 mm ³ /s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 °C printing temperature)
Air Purification	Pre-filter Grade	G3
	HEPA Filter Grade	H12
	Activated Carbon Filter Type	Granulated Coconut Shell
	VOC Filtration	Supported
	Particulate Matter Filtration	Supported

Specifications

Cooling	Part Cooling Fan	Closed Loop Control
	Cooling Fan for Hotend	Closed Loop Control
	Auxiliary Part Cooling Fan	Closed Loop Control
Supported Filament Type	PLA, PETG, TPU, BVOH	Optimal
	ABS, ASA, PC, PA, PET, PLA-CF/GF, PETG-CF/GF, PA, PET, PC, ABS, ASA	Superior
	PPA-CF/GF, PPS, PPS-CF/GF, PVA	Ideal
Sensor	Camera	Built-in; xxxx*xxxx
	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*	1100 W@220 V / 900 W@110 V
	PLA Steady-State Power	200 W@220 V / 200 W@110 V (PLA printing)
Electronics	Touchscreen	5-inch 480*720 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
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

Specifications

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

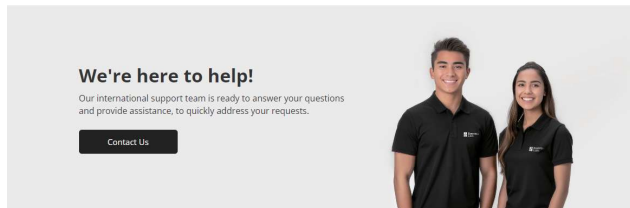
*To ensure the heatbed quickly reaches the needed temperature (35–120°C) , the printer will maintain maximum power for about 3–5 minutes.

Technical Support

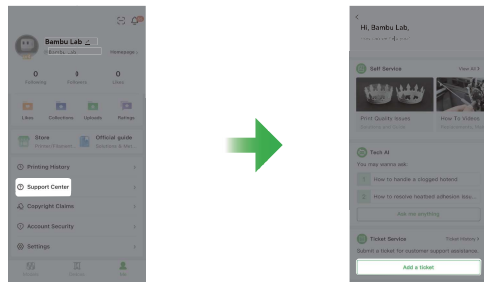
If you need technical support, please follow either of the following methods:

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

Enjoy!

www.bambulab.cn