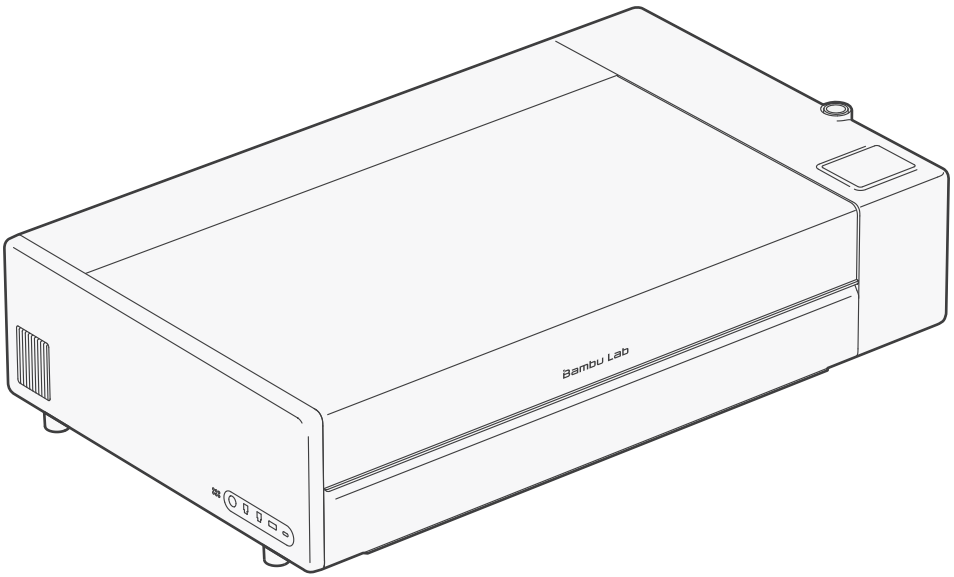
Bambu Lab R1

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
Watch a step-by-step video and get started quickly.
bambulab.com/r1-quick-start

Download Bambu Handy and Bambu Suite
Control your product and monitor task progress in real time on both your phone and computer.
bambulab.com/download

Explore More Cool Models
Visit MakerWorld, our models community, to find a variety of free models and bring your ideas to life using the creativity tools in Maker-Lab and accessories in Maker's Supply.
makerworld.com

Learn with Bambu Academy
Visit Bambu Academy and explore courses from beginner to advanced levels to enhance your laser engraving and cutting skills.
bambulab.com/academy

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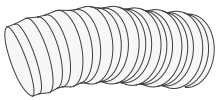
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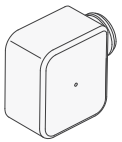
Included Accessories



1. Power Cord*



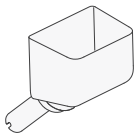
2. Smoke Ventilation Hose*



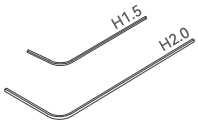
3. Smoke Ventilation Fan*



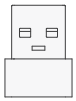
4. Anti-freeze*



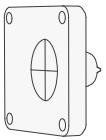
5. Funnel*



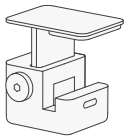
6. Allen Key*



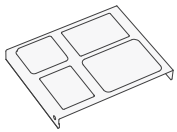
7. Safety Key (Pre-installed)*



8. Laser Alignment Sensor



9. Material Pin



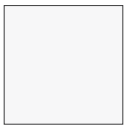
10. Calibration Board



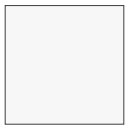
11. Lubricant Grease



12. Lubricant Oil



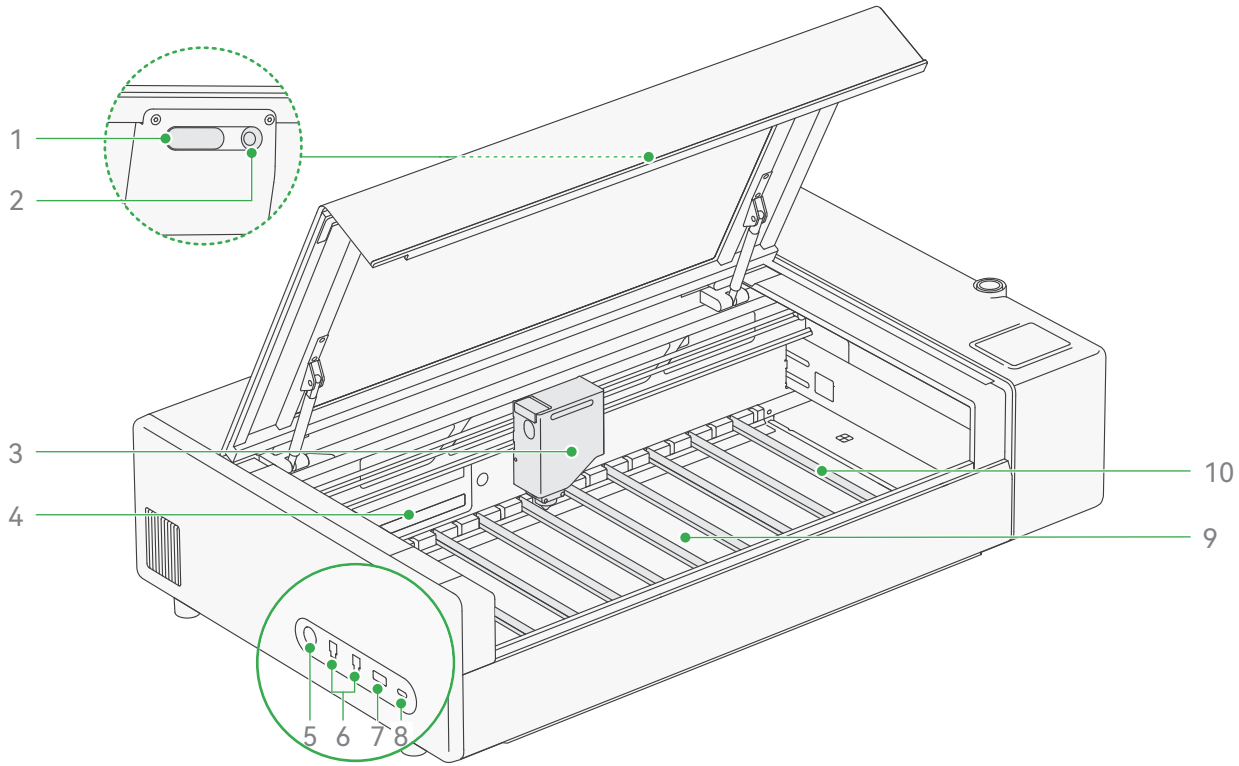
13. Clear Acrylic



14. Basswood Plywood

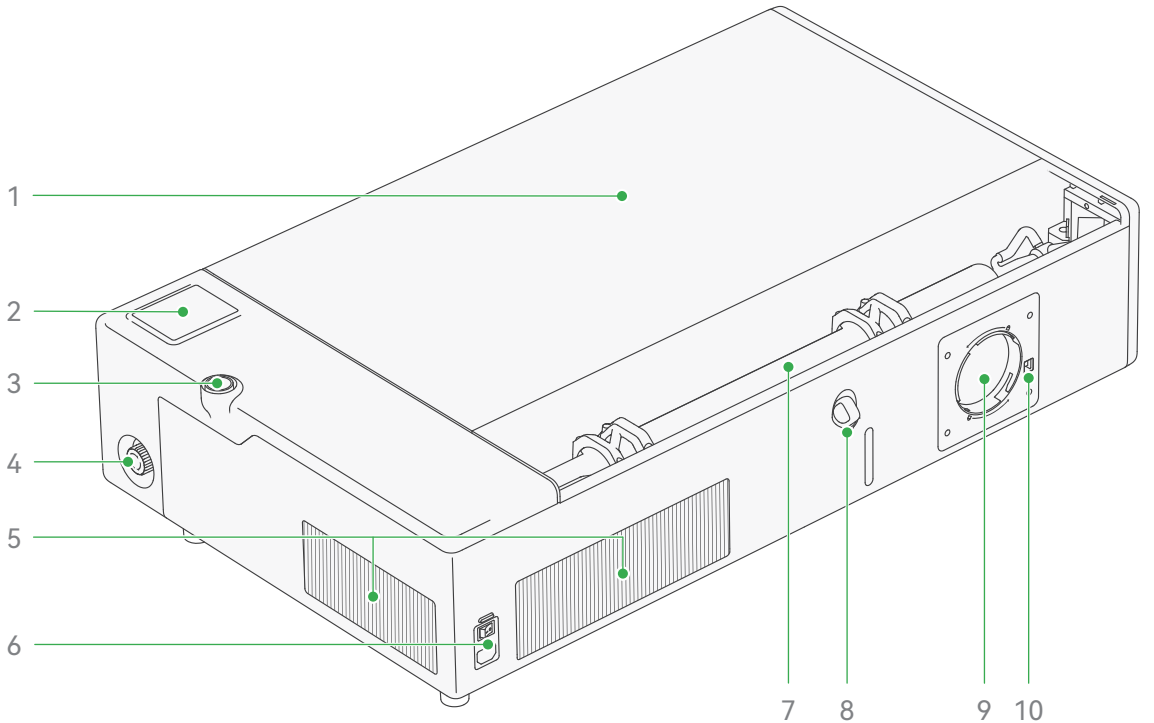
- **Items marked with "*" are used for initial installation**. Scan the QR code to visit the official Wiki to view accessory descriptions.
- Before starting the installation, **prepare approximately 1500 mL of distilled water** (do not use tap water, mineral water, etc.).

Product Overview



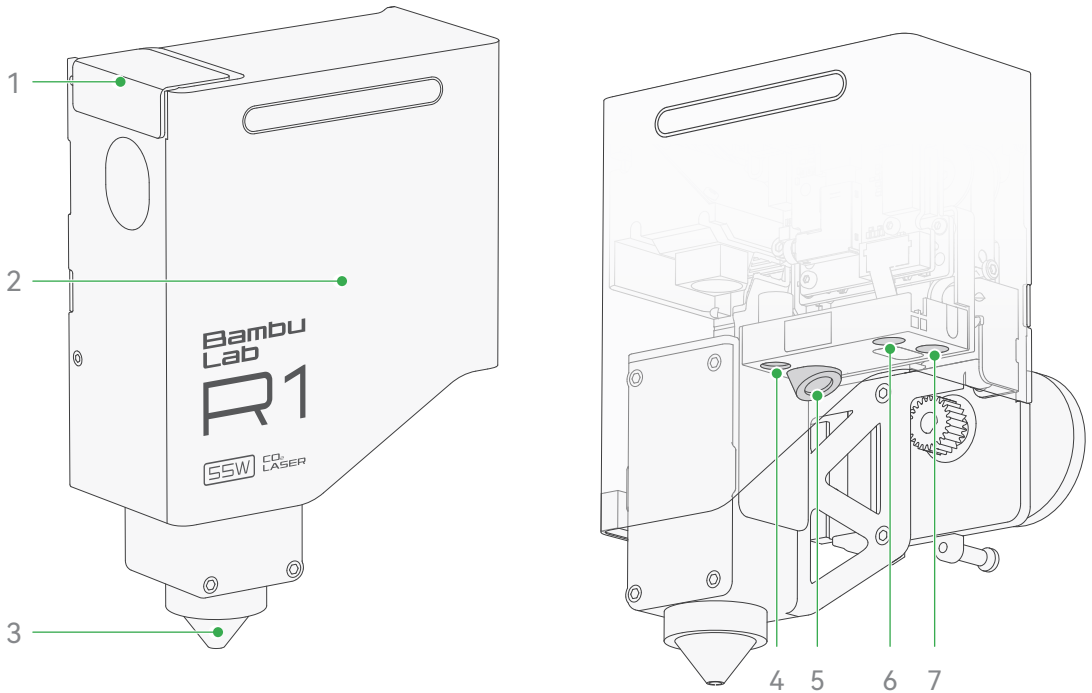
1. LED Fill Light
2. BirdsEye Camera
3. Toolhead
4. Ventilation Filter
5. Fire Extinguisher Connector
6. Bambu Bus Port 4-pin (Purifier/Extinguisher Expansion Port)
7. Safety Key (Pre-installed)
8. USB-C Port
9. Base Tray
10. Slat

Product Overview



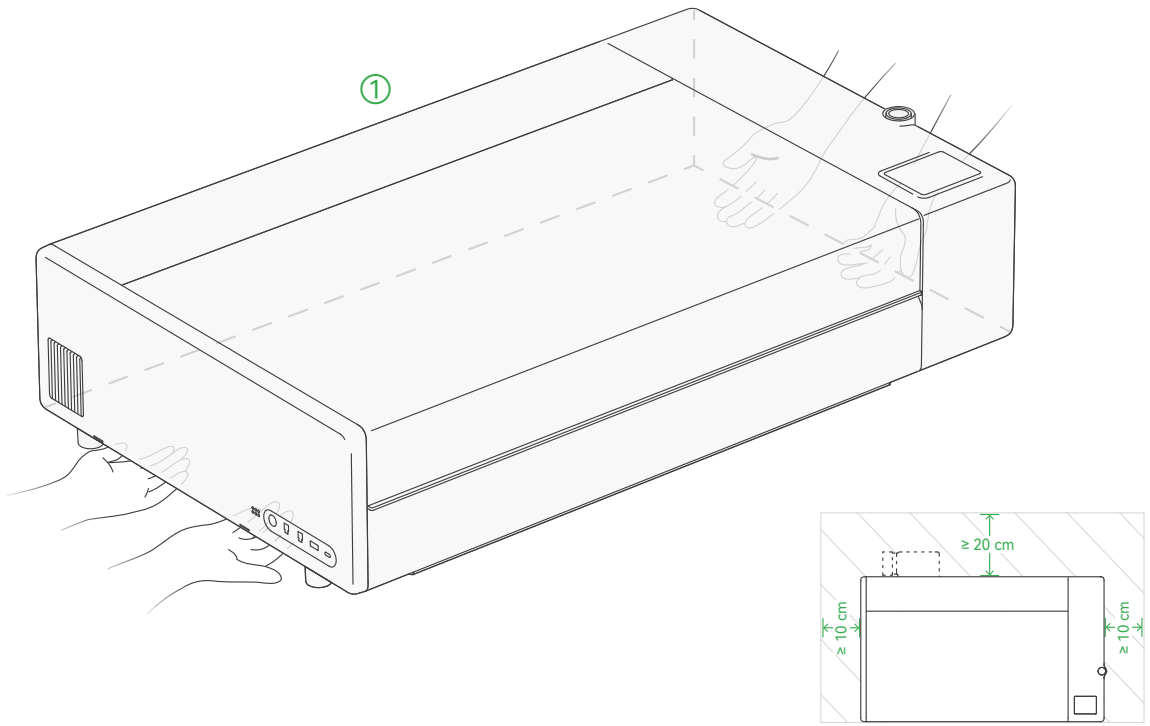
1. Laser Protective Lid
2. Touchscreen
3. Start/Pause Button
4. Emergency Stop Button
5. Radiator Grille
6. Power Socket and Switch
7. Laser Tube
8. Water Inlet
9. Smoke Ventilation Port
10. Bambu Bus Port 4-pin (for smoke ventilation fan)

Product Overview

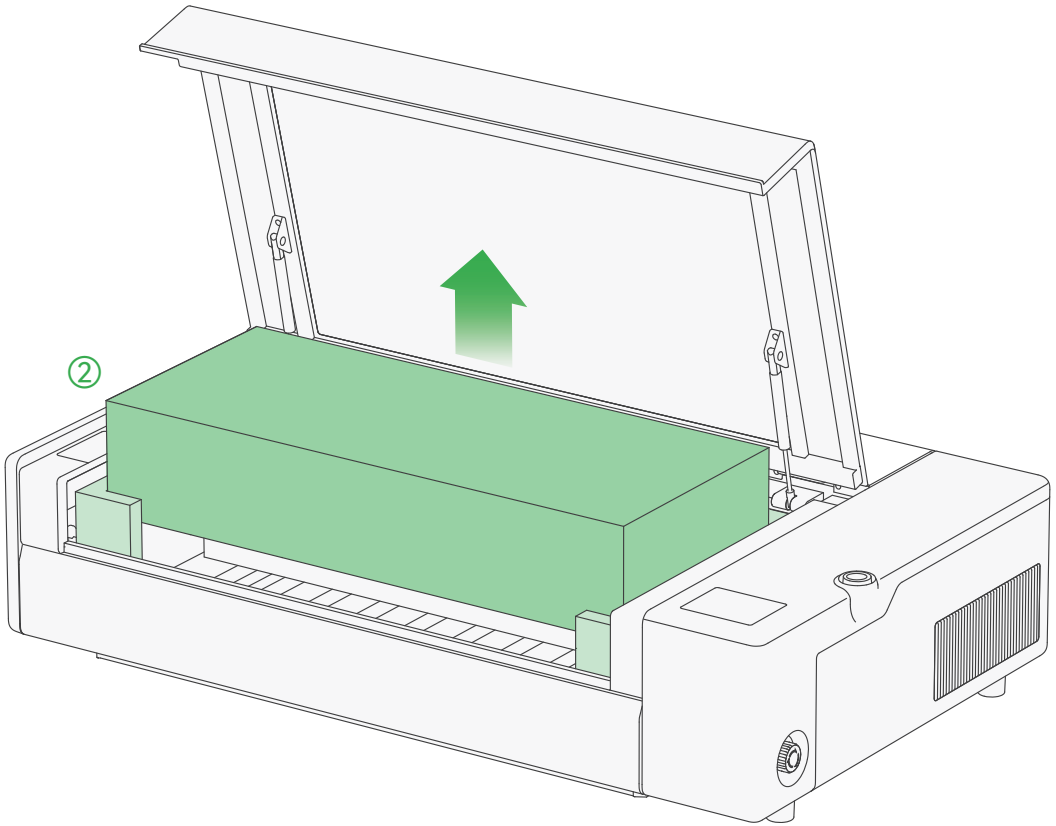


1. Reflective Mirror Service Cover
2. Toolhead Front Cover
3. Air Assist Nozzle
4. Pinpoint Laser (Red)
5. Distance Measurement Laser (Blue)
6. Flame Sensor
7. Toolhead Camera

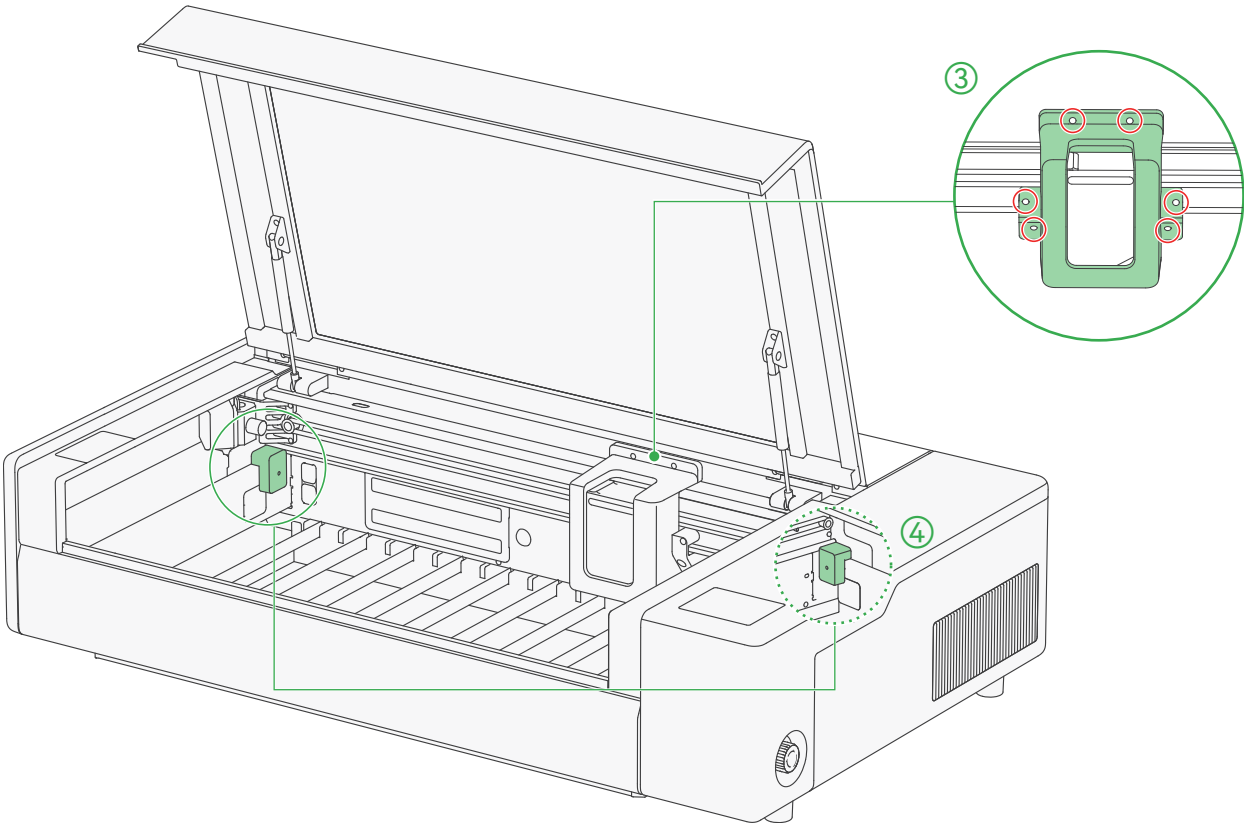
Unboxing Guide



1. With two people, lift the product out of the packaging and place it on a stable, level surface. Remove the protective film from the lid.
   Tip: Allow sufficient clearance around the product for heat dissipation and installation of the smoke ventilation hose.

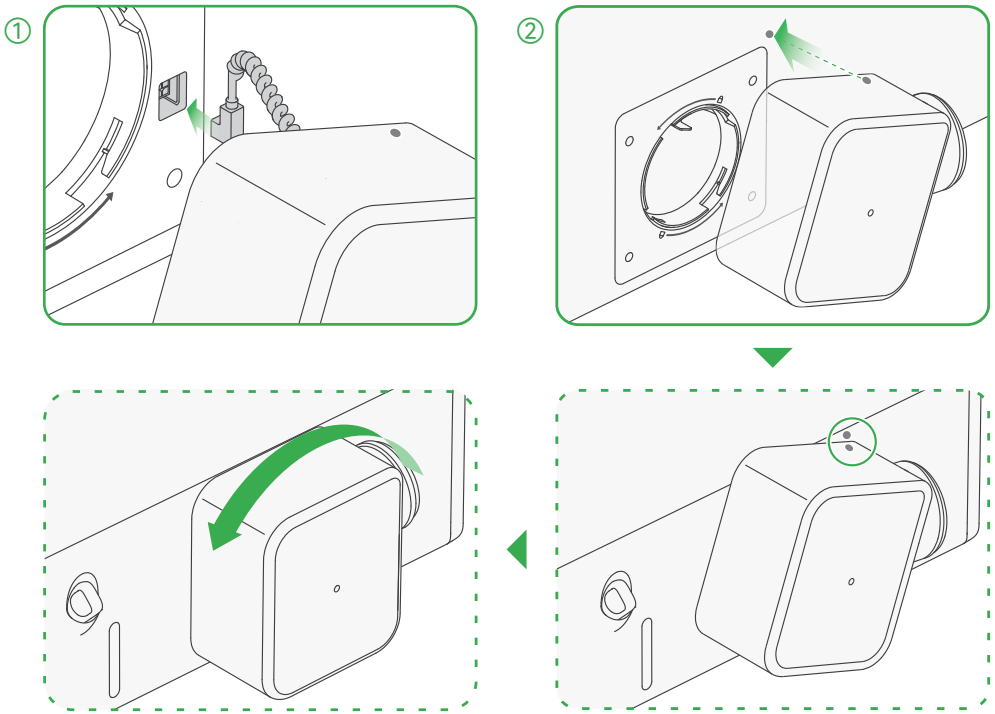


2. Open the protective lid and remove the cushioning materials and accessory box.
   Tip: It is recommended to keep all cushioning materials, shipping retainers, and the accessory box for shipping.



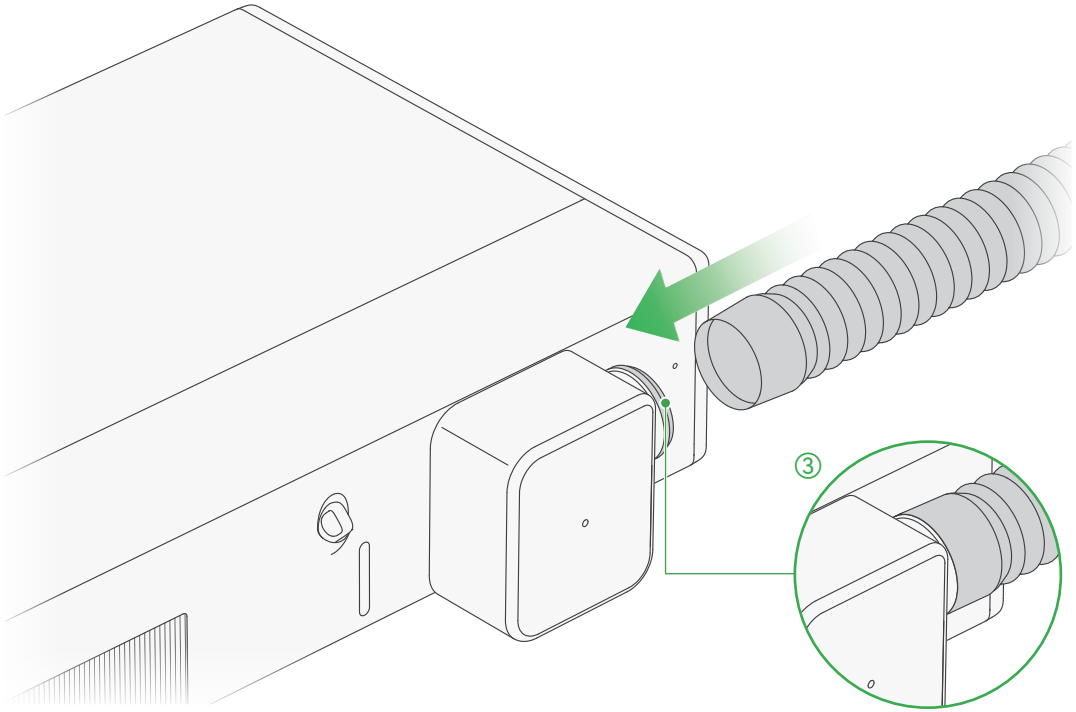
3. Use the included long H2.0 allen key to remove the **6** screws around the toolhead, then lift off the toolhead retainer.
4. Remove the screw(s) from the shipping retainer(s) on the Y-Axis, then take off the retainer(s).

Install the Smoke Ventilation Accessories



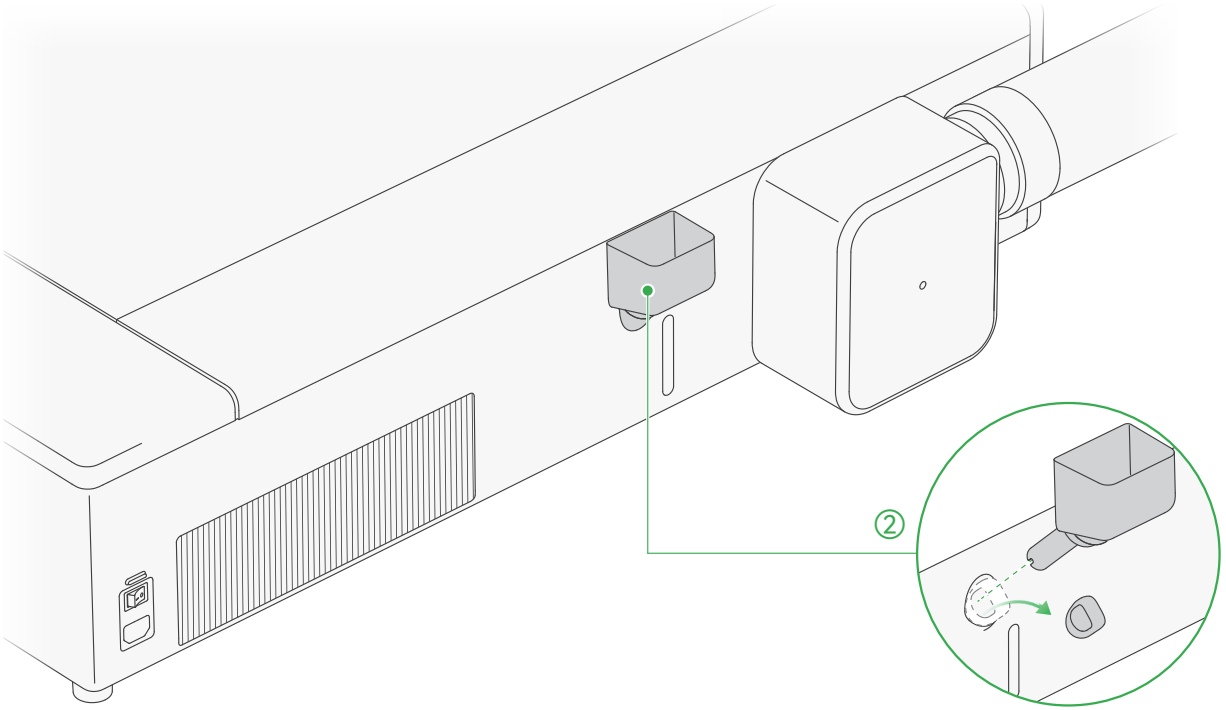
1. Take out the smoke ventilation fan. Plug the **built-in Bambu Bus cable 4-pin** into the Bambu Bus port 4-pin on the back of the product, then route it into the cable channel.
2. Align with the slot on the smoke ventilation port, **rotate the fan counterclockwise until you hear a "click" sound**.
   Tip: Check the alignment marks on the fan and the product to ensure it snaps into the correct position.

Install the Smoke Ventilation Accessories



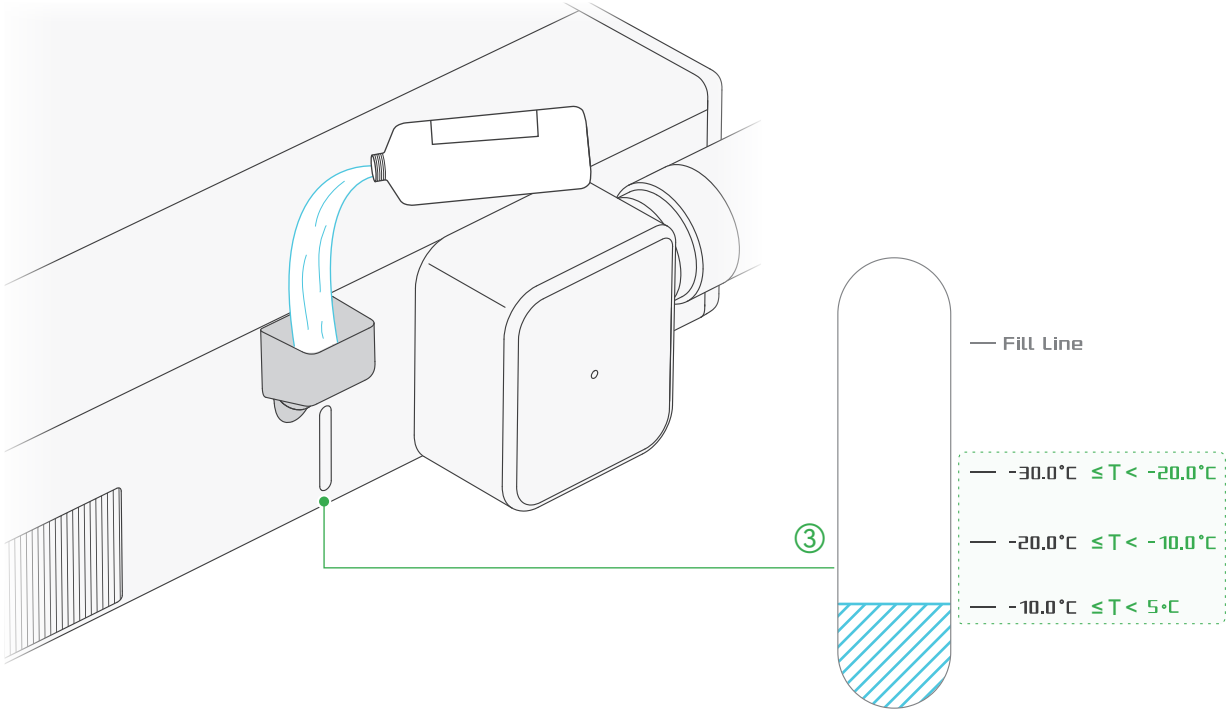
3. Take out the smoke ventilation hose. Fit the end with the hose connector onto the fan's air outlet, ensuring the smoke ventilation hose completely covers the O-ring, then place the other end in a well-ventilated location.
   Tip: If using the Bambu Lab E1 Pro Air Purifier (sold separately), connect the other end of the hose to the purifier, then plug its Bambu Bus cable 4-pin into the EXPANSION port on the side of the laser cutter.

Fill the Coolant



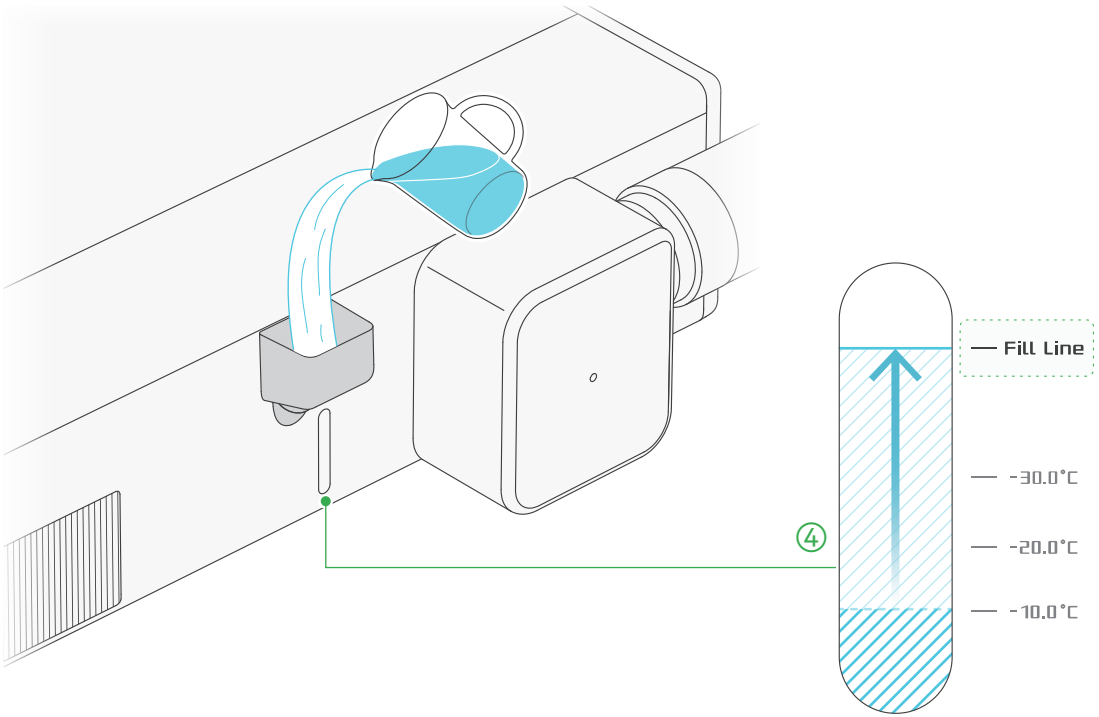
1. Prepare approximately 1500 mL of distilled water for later use.
2. Remove the water inlet plug and insert the funnel. Do not put your fingers into the water inlet to avoid injury.
   Warning: Do not use tap water or any water that may contain impurities, as this can severely affect laser tube performance and even cause product damage.

Fill the Coolant



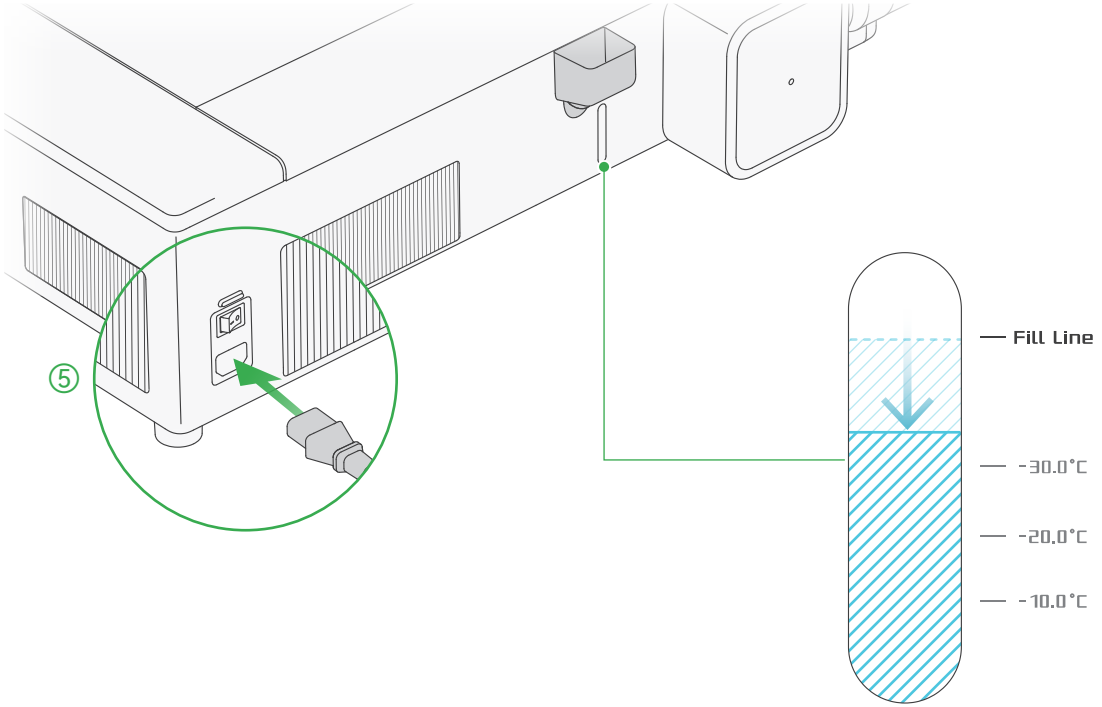
3. **Add Anti-freeze**: Determine whether anti-freeze is needed based on the lowest annual temperature at the product's installation location.
   - **If the temperature may drop below 5°C**, anti-freeze is required. Look directly at the water tank and add anti-freeze up to the corresponding temperature mark.
   - **If the temperature never drops below 5°C**, do not add anti-freeze. Proceed to the next step.

Fill the Coolant



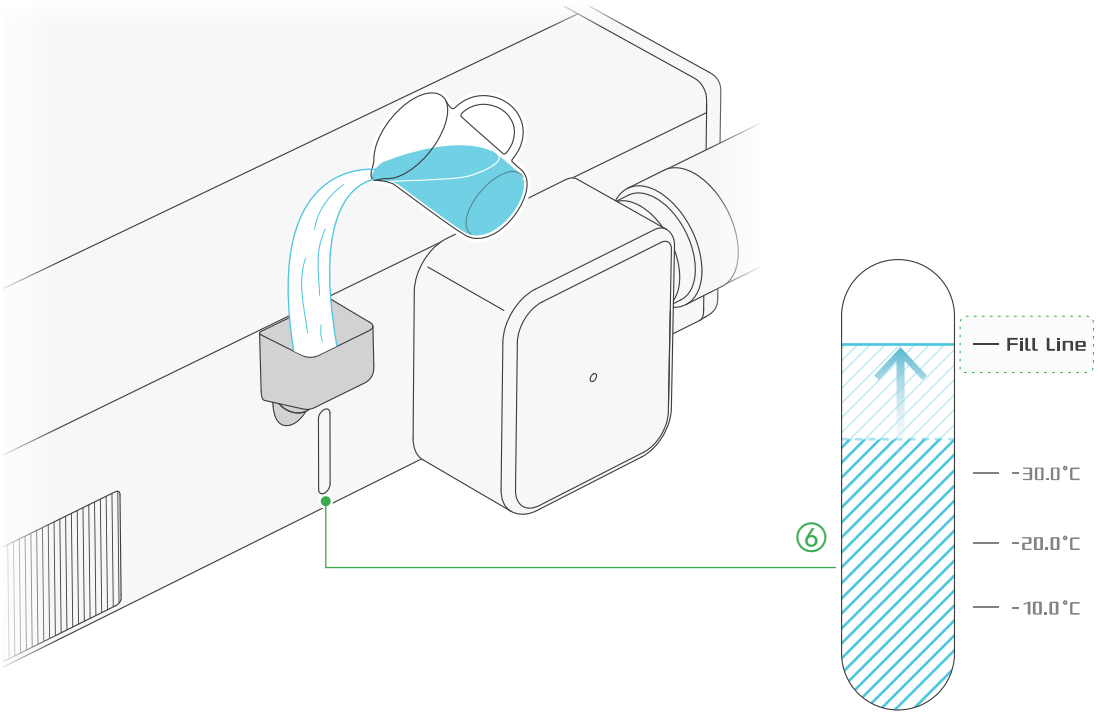
4. **First Fill of Distilled Water**: Looking straight at the water tank, fill distilled water to the **Fill Line** mark. The water level may be slightly above the mark.

Fill the Coolant



5. Take out the power cord, connect the product to a wall outlet and switch on the power. After the product starts up, wait for the water level in the tank to drop (approximately 30 seconds), then proceed to the next step.

Fill the Coolant



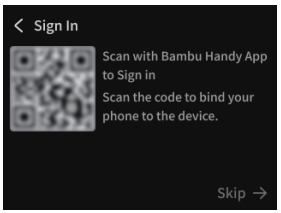
6. **Top Up Distilled Water**: Look straight at the water tank, refill distilled water to the **Fill Line** mark.
   Tip: After filling, remove the funnel and reinsert the plug.

Bind the Device - Bambu Handy

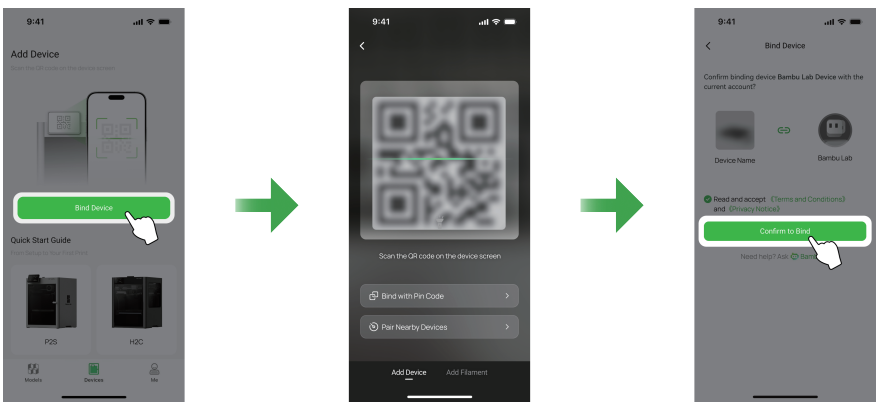
1. Scan the QR code on the right to download Bambu Handy. Register and log in to your Bambu Lab account.



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



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

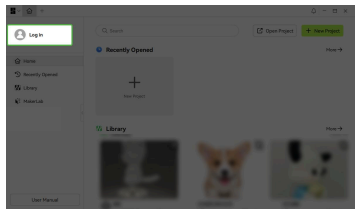


4. Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.

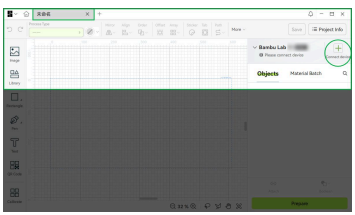
Bind the Device - Bambu Suite



1. Connect both the computer and device 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 Suite. Register and log in to your Bambu Lab account.
bambulab.com/download/suite



3. Click the "+" on the project page, and Bambu Suite automatically discovers devices on the same network. Click the detected device to bind it to your account.

4. After completing the onboarding guide, you can view the first use tutorial on the official Bambu Lab Wiki.
bambulab.com/r1-use-guide

Regular Maintenance

During laser processing, large amounts of smoke, dust, and debris are generated, which gradually accumulate throughout the product over time. To ensure stable operation and maintain high-quality laser processing results, regular maintenance and care are required.

Metal Moving Parts:

- Regularly clean the X-Axis linear rods, X belt, and Z-Axis linear rail. Apply lubricant grease to the linear rod and use lubricant oil for the linear rail in a timely manner.

Ventilation System:

- Regularly inspect and clean dust buildup on the ventilation filter and smoke ventilation fan. Replace if necessary.

Chamber & Other Components:

1. Clean debris and dust from the base tray and inside the chamber after processing.
2. Regularly clean the air assist nozzle, focusing lens, and the first-level, second-level, and third-level reflective mirrors to prevent reduced focusing performance and reflectivity.
3. Regularly clean the birdseye camera, toolhead camera, and vision markers on the bottom.

Replace Coolant:

- Regularly drain the water tank. Follow the sticker guide on the water tank, mix anti-freeze and distilled water at the corresponding concentration, then refill to the Fill Line mark.

bambulab.com/support/r1/maintenance

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

Technical Support

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

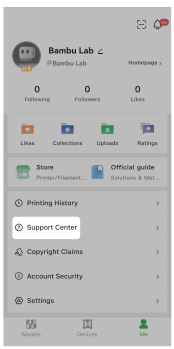
Method 1: Visit the Bambu Lab Wiki for tutorials and maintenance guidance.
wiki.bambulab.com

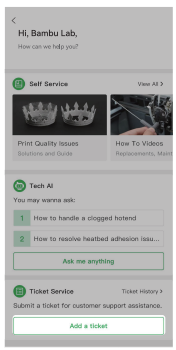
Bambu Lab Wiki

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

Bambu Lab Support Center

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







Bambu Lab

www.bambulab.com