Panda Bamboo Feeder Hardware

Dimensions

MODELS

reference models for external dimensions

Hardware Interface

- `Retract Button`: Used to retract/unload filament.
- `Load Button`: Used to feed filament into the printer extruder.
- `Type-C` Port: Can be used for factory resets via USB.

Important Notes

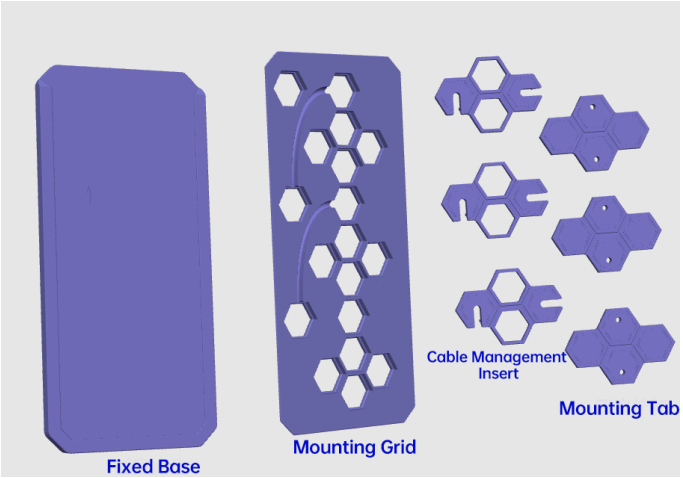
1. Linkage Limit: A maximum of three Panda Bamboo Feeders can be linked and used together.
2. Power Requirements: When using multiple units, the topmost Feeder requires an external DC power supply (a 24V/2.8A power adapter must be purchased separately). Due to the limited power output of the Bambu Lab AMS interface, attempting to power multiple units through the printer simultaneously may cause system instability or malfunctions.
3. AMS Compatibility: The Panda Bamboo Feeder can be installed alongside the AMS or AMS 2 Pro; however, they cannot be used simultaneously. When printing via the AMS, please use the switch on the power adapter to turn off the Panda Bamboo Feeder.
4. Functionality Clarification: The Panda Bamboo Feeder is designed specifically for filament relay (auto-refill) and material buffering. It does not support multi-color printing.

Installation Guide

P1/X1 Series Models

1. Pre-print Required Components

   Ensure all required components are printed before starting the installation. The print files are available for download here.

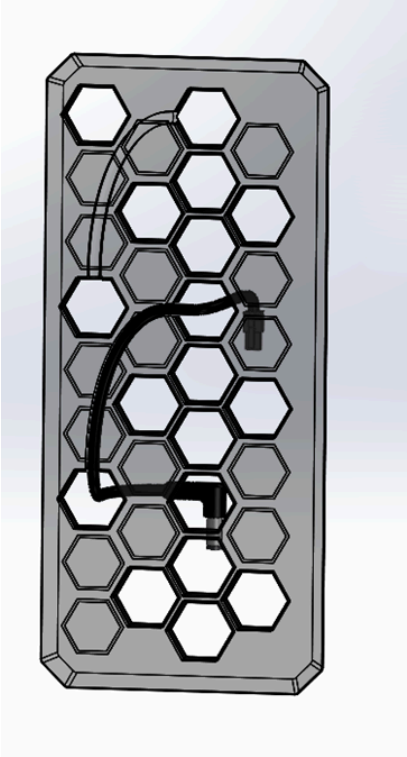


2. Install the Mounting Tab

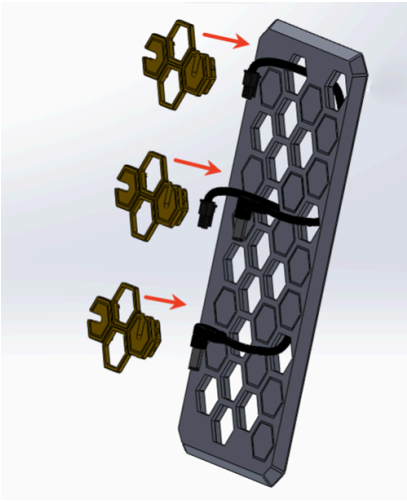
   Use the screws in the package to secure the 3D printed Mounting Tab to the back of the Panda Bamboo Feeder.

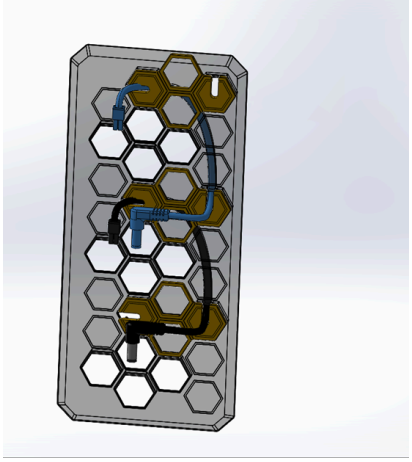
3. Install the Quick-Release Mounting Grid

As shown in the diagram, thread the cable through the printed Quick-Release Mounting Grid and place it into the cable channel (ensure the DC head and MX3.0 are inserted correctly)



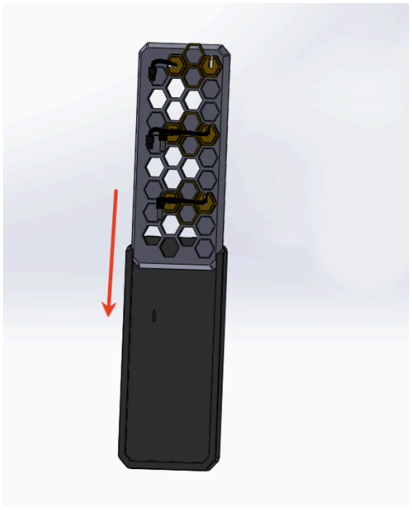
Snap the printed Cable Management Insert into the quick-release mounting grid.





4. Attach Base

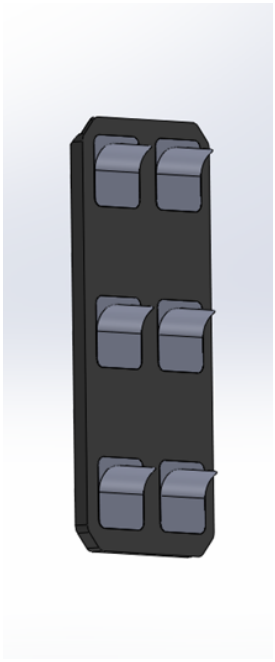
Once the cables are arranged, slide the entire quick-release mounting frame into the printed Fixed Base.



5. Mount the Feeder

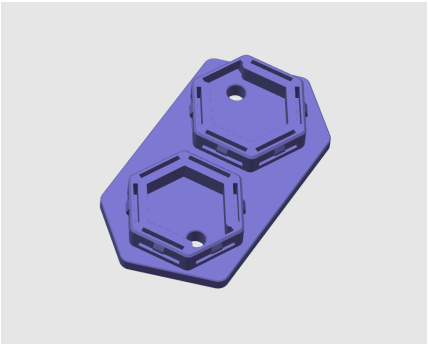
   Snap the Panda Bamboo Feeder onto the quick-release mounting grid via the mounting tab and connect the cables.

   Apply the included double-sided tape to the back of the fixed base, remove the release liner, and stick the base to a suitable location, such as the side of the printer.



Panda Perch Installation

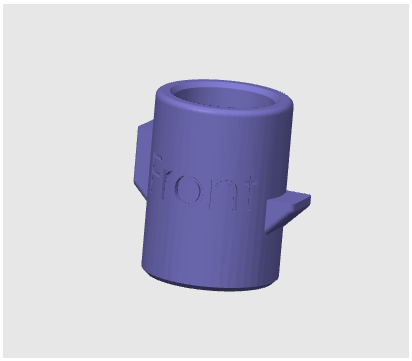
For BIQU Panda Perch users: Following Step 2 in P1/X1 Series Models, snap the Feeder into the hexagonal hole on the side of the Perch using the mounting tab. Secure the hook firmly from the inside with the printed clip shown below. Click here to download the required print files.

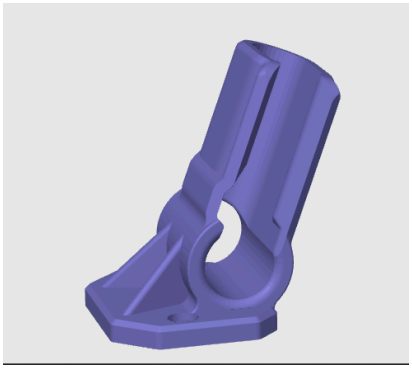


A1 Series Models

1. Pre-print Required Components

   Pre-print the Tangle Detection Delete Module and Mounting Bracket before installation. Download files here.





2. Begin Installation

   Open the buckle at the indicated position, being careful not to apply too much force to avoid damage.

   Remove the spring and rotate the securing ring, circled in the image, by 90 degrees to detach it.

Insert the Tangle Detection Delete Module into the print head.

Reinstall the securing ring that was previously removed.

Pay attention to the direction: the protrusion on the securing ring should face the cutter side.