G. Warnings

⚠️ **WARNING**: This 3D Printer - when used with styrene filament (ABS / HIPS / PC-ABS) - can expose you and others in the same room to styrene, a chemical known to the State of California to cause cancer. www.P65Warnings.ca.gov

ALWAYS OPERATE THIS PRODUCT IN A WELL-VENTILATED AREA.

⚠️ WARNING, HOT SURFACES!
Extruder and build platform can reach very high temperatures.

⚠️ WARNING! Fast moving parts. Tie back loose hair, secure loose clothing and keep all printer doors closed during operation.

⚠️ Do not leave the printer unattended during operation. Watch to make sure the first few layers adhere correctly.

H. Printer Description

- Touchscreen
- USB Port
- Front Door
- Dual Filters
- Build Platform
- Waste Tray

[Front]

- Top Lid
- Right Side Handle
- Filament Bay

[Right]

- Power Switch
- Ethernet Socket
- USB Port
- Power Socket
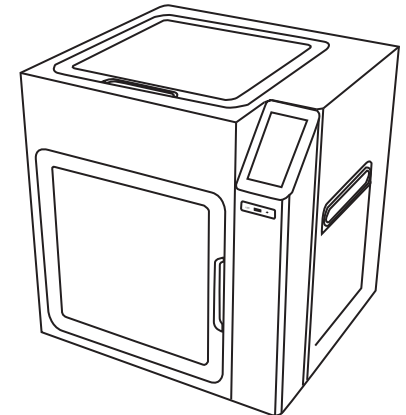
[Back]

AFINIA 3D

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H+1

Quick Start Guide

For full user manual,
visit www.afinia.com/support/manuals-guides/

AFINIA 3D

A. Unbox the H+1

1. Cut open the tape on the top of the cardboard box, and open the box from the top.

2. Take out the two boards on the top foam, and remove the top foam.

3. Remove the plastic cover and the square shaped foam wrapping around the machine.

4. Lift the printer out of the cardboard box using two handles on both sides of the printer, and place it on a flat surface.

5. Open the Top Lid and remove all the tights and foams inside the printer. There are six tights in the machine.

6. Open the Front Door, and take out the two foams and two extruders beneath the build platform. As figures show below:
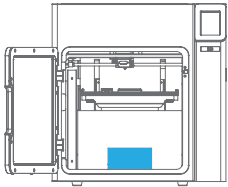
a. Take out the extruder.
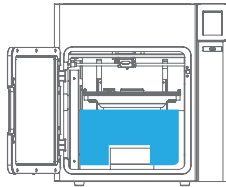
b. Turn the foam 90 degrees and then take it out of the machine.

7. Take out the roll of filament, the accessory box and the power cord at the bottom of the cardboard box.

8. Put all the foams back into the box, and keep the box for the future use.

B. Install Software

1. Download the latest software.

    * For Windows: https://www.afinia.com/support/downloads
    Operating System requirement: Windows 7 SP1 or above.

    * For Mac OS: Go to Apple APP Store and search for Afinia Studio.
    Operation System requirement: macOS X 10.10 or above.

2. Install the software on your computer.

C. Printer Installation

1. Install Build Plate
Make sure it is pushed all the way to the end.

2. Load Filament
Hold the filament straight up, feed it into the guiding tube and make sure it sticks out from the other end of the guiding tube.

3. Power On
Connect the printer with the power cord and plug the cord into a wall socket.

D. Connect and Calibrate

1. You can connect your printer with USB cable, ethernet cable or wireless via Wi-Fi.

    To set up Wi-Fi on your printer, go to "Config", click "Network", toggle on "Wi-Fi" , and select a network to connect.

2. Initialize the printer: Click "Initialize" on the touchscreen. The printer will start to initialize.

3. To calibrate the platform level and nozzle detection, press "Calibration" then press "AUTO". Wait for the process to complete to the next prompt in step 4.

4. After the process in step 3 is completed, the extruder will move to the center of the platform. Put the external Nozzle Height Detector accessory under the nozzle as shown in the picture.
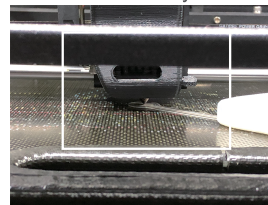
Nozzle Height Detector

5. Adjust the "+" and "-" buttons on the touchscreen to raise and lower the platform to bring the sensor into contact with the nozzle. When this happens, you will hear a buzzing noise and see a red light appear on the detector. At this point press the Check Mark button on the display to confirm the nozzle height which will complete the calibtration.

6. Extrude the Filament: Push the filament into the inlet of the Extruder, select from the touch screen "Material", select the matching material type, and then press "Extrude".
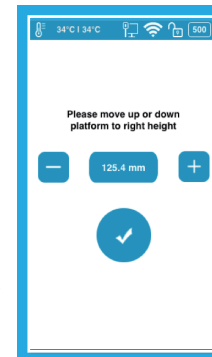
⚠ [Caution]：The default nozzle height of a new printer is set to 0mm. Calibrate your printer before the first time use.

E. Start a Print

5. With Afinia Studio software open on your computer, click Build on the left menu, load a 3D model, edit the model settings and print settings, and then click "Print". Wait for the data to be sent to the printer then the printer will start printing.

NOTE: The first time connecting to the printer and printing, there may be an error saying the filament type is not set. If this happens, go to the Toolbox (shown below) and set the filament type to match what is in your printer.

F. Cautions

1. Flex/Perf Glass Broad: Glass boards are easy to break. Please handle with care.

2. Extruder Removal/ Replacment: Always withdraw filament first, turn off the machine, unplug the extruder cable before removing or replacing the nozzle.

3. Cable Removal: Always turn off the machine before removing any internal cables.

4. HOT: Never touch the extruder and the build board while the printer is operating.

5. Safety First: Always wear safety gloves when using the scraper.

6. Adult Supervision: Adult supervision is required in the presence of children. Small printed parts are a choking hazard, and always keep sharp tools away from children.