WolfBox

INSTALLATION MANUAL

AIRWOLF3D™

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The Wolfbox is the Wi-Fi board that will give you control of the printer and how you will start print files over Wi-Fi. It will be attached to the astroprint.com account you created to allow access and use of your stored .STL files and G-code.

Astroprint.com

Astroprint.com will be your dashboard for storing .STLfiles and creating **G-code**. **G-code** is the instructions for the printer, e.g. speed, temperatures, and toolpaths.

On a desktop computer, go to "**Astroprint.com**" and create a free account. Decide if you would like this account to be shared with multiple users or kept private. We recommend using a general company email and password so all users can access the printer.
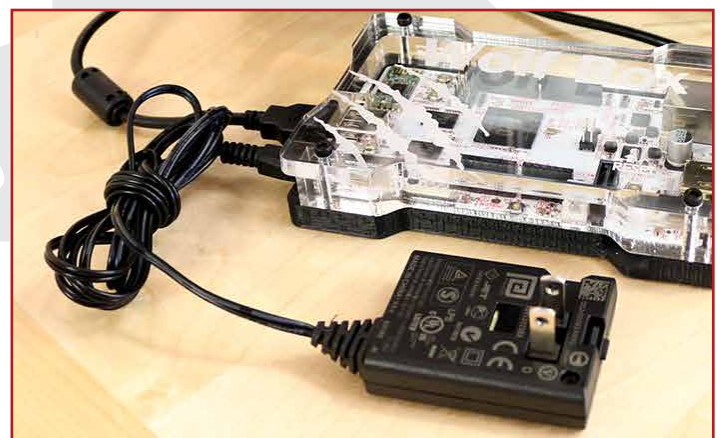
You will need this account information during the Wolfbox setup.

Installation

Plug the provided USB A/B cable from the printer to your Wolfbox. The USB will be labelled on the back left side of the printer.
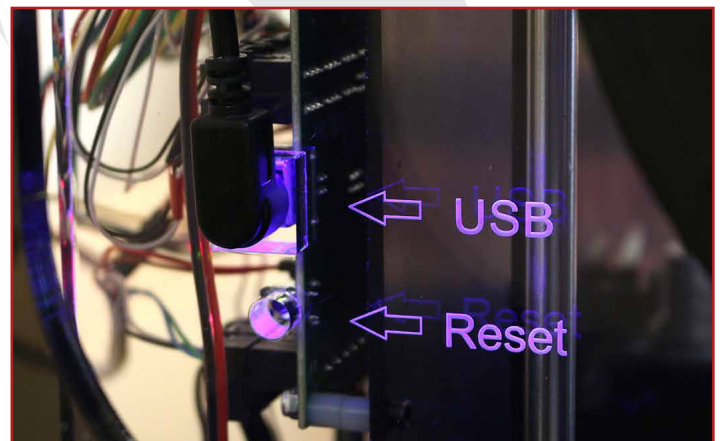
Plug the Micro USB from the Wolfbox to your outlet. A surge protector is highly recommended!

Setup

After plugging in your Wolfbox, wait 3-5 minutes for your box to fully boot.

Once booted, you will be able to see the hot spot broadcasting in your desktop computer's Wi-Fi network options. The hot spot will generally be named Wolfbox_####.

Open a Google Chrome Browser window and type "10.10.0.1". This will take you to the Airwolf 3D Printer setup page. NOTE: You must be connected to the hot spot in order for this Master Mode IP to bring you to the setup page.

Click "**Begin Setup**".

We recommend changing the name to your printers model and serial number. You can find this number located on the back panel of your printer etched into the acrylic.

Select the Wi-Fi network you wish to connect your printer to and click "Connect". If your network has a password, you will need to type this in and click "Connect" again.

Success! Click on "Astroprint Account" to connect the printer to the Astroprint.com account you previously created.

Check that the USB cable is connected to both the RAMBo Board (printer USB port) and the Wolfbox.

Verify the Baud Rate is set to 250000 and click "**Connect**".

Astroprint Interface

Astroprint.com will be your dashboard for storing STL files and creating G-code. G-code is the instructions for the printer, e.g speed, temperatures, and toolpaths.
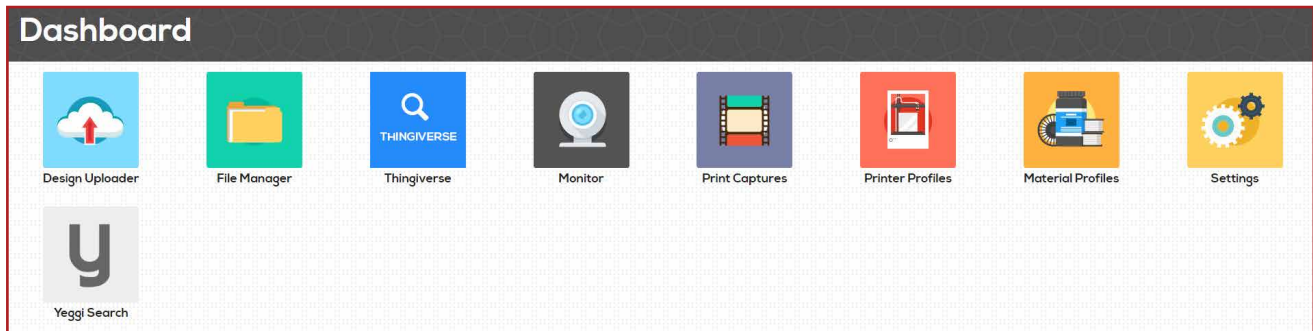

Design Uploader

- Open AstroPrint and select "Upload Design", then navigate to the STL you'd like to upload. A new page with a picture of the STL file should appear.
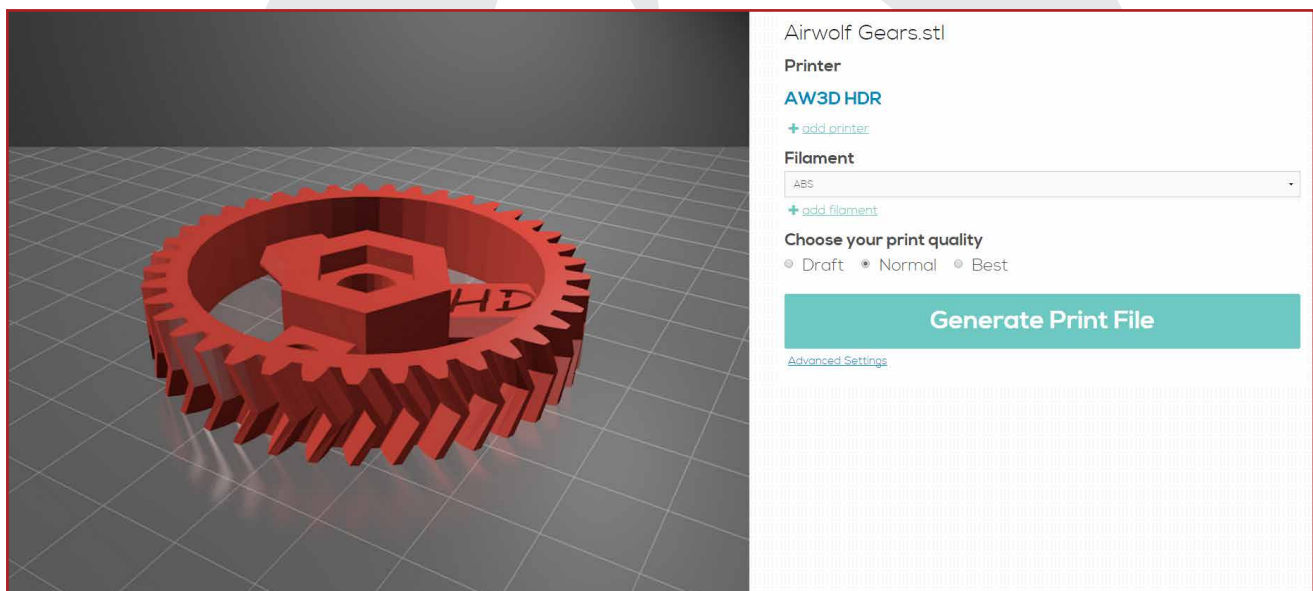
- Select a "Printer Model"
  - "add printer" if the printer model is not already available in the list.

- Select a "Filament"
  - "add filament" if the material is not already available in the list.

- Select a "Print Quality"
  - "Normal" will yield a high quality part in most cases. Selecting "Best" when the part does not require it will significantly increase print times unnecessarily.

AIRWOLF3D™

• "Advanced Settings" can be used to alter the default settings.

• Click "Generate Print File". This will slice your STL into G-code and return you to your file manager.

📁 File Manager
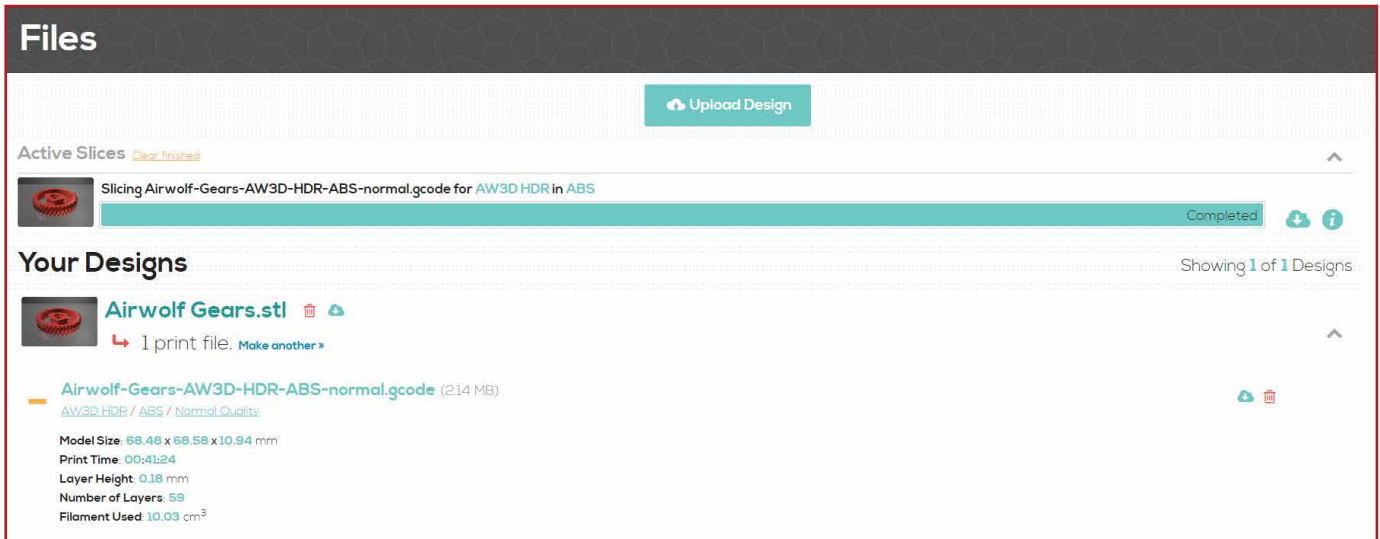
• Under "Active Slices", the part should be slicing, demonstrated by the loading bar. This process may take a minute or two, depending on the STL file.

• Under "Your Designs", the latest STL file should be listed at the top. Under each name of the STL files, it will display "# print file(s)". Clicking this will display all of the print files already generated along with the settings used for that specific print. Clicking on the settings will pop up a secondary window with all the specific settings used. Clicking "Make another >>" allows you to create another print file for that particular STL.

🔍 Thingiverse
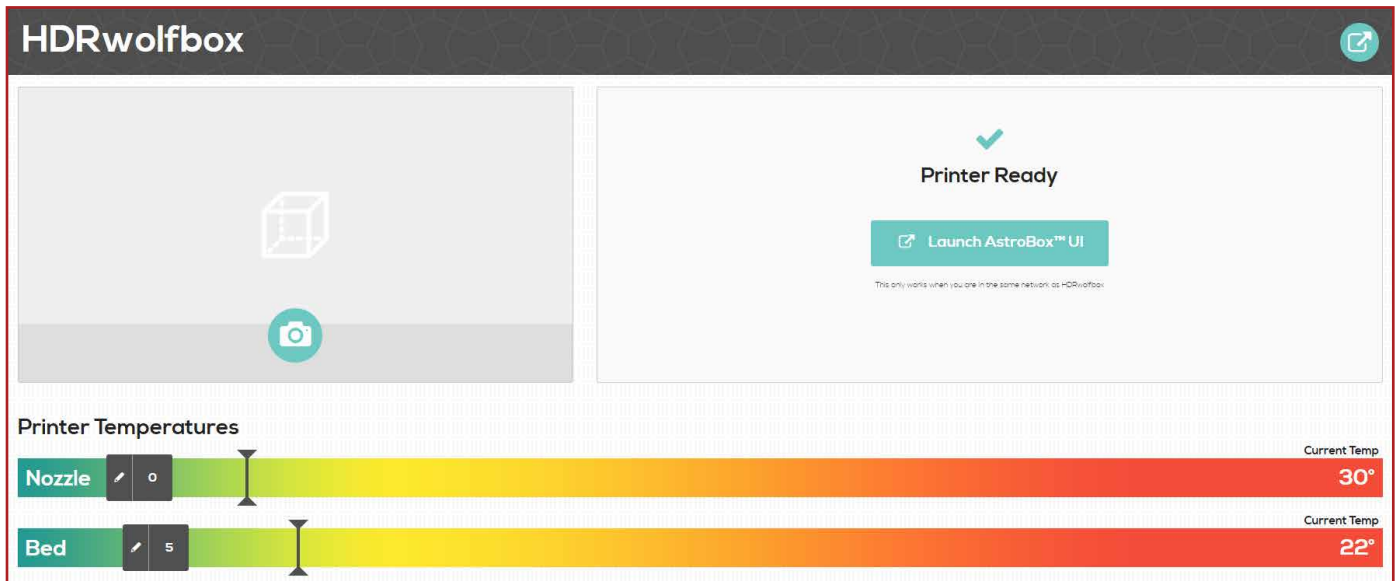Browse and download STL files others have created.

🎥 Monitor
After initial setup, this tab will display your printer and will give you access to the Wolfbox Interface (*see page 6*).

Click "Launch UI". This will open a new window in your browser with your printer's Wolfbox Interface (*see page 6*).

• "Camera/Controls"

• From here, you can view basic information such as the current temperature of the printer and what part is printing (during a print job). You also have the ability to capture photos if you attach a webcam to your Wolfbox. If you are interested in more information on connecting a webcam, please visit our tech portal.

• Click "Launch UI". This will open a new window in your browser with your printer's Wolfbox Interface (*see page 6*). You must be connected to the same network that your printer was connected to during initial setup.

Print Captures
This tab will display pictures taken if you have attached a webcam to your printer. Please visit our tech portal for more information.

Printer Profiles
During the slicing process, any printer you selected from "add printer" will be listed in this tab.

• You can erase any printers you no longer wish to have listed in your dropdown.

• Do not edit any of the printer settings. Airwolf 3D has spent countless hours perfecting these print settings so that our customers have the best experience possible with their new printer. Please make sure to use these default settings when using the printer.

Material Profiles

During the slicing process, any printer you selected from "add filament" will be listed in this tab.

• You can erase any filaments you no longer wish to have listed in your dropdown.

• The option is available to edit default temperatures for the filament, however, we do not suggest changing our recommended settings.
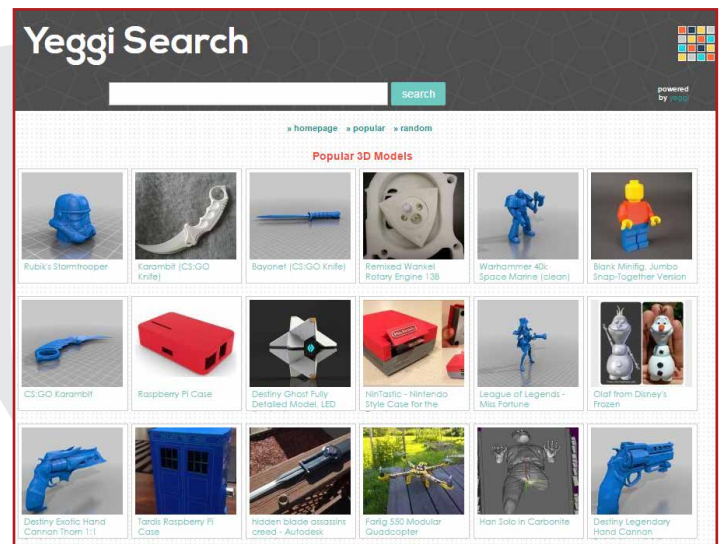
Settings

Change password, name or e-mail.

Yeggi Search

Browse and download STL files others have created.

Wolfbox Interface

The Wolfbox is the printer's interface. This will be where you upload print files from your computer, download print files from your Astroprint account, and start prints.

File Uploader

This option is the same as seen on page 3. Uploading stl files here will still be sliced using Astroprint.com

File Manager

Upload File (stl, gcode)
• Allows you to upload an STL file from your computer to your AstroPrint account and slice it into G-code. The STL file will be stored on your AstroPrint account for future use.

• Allows you to upload a G-code file directly to your Wolfbox. This will not be stored on your AstroPrint account, only on the Wolfbox.

Sync
• Synchronizes the Wolfbox with your AstroPrint account so you can view and download print files that have recently been sliced on your AstroPrint account.

Local
• Shows you only files that have been sliced or run through this printer's interface. You will not be able to see any files that were sliced using your AstroPrint account.

Cloud
• Shows all print files on both the Wolfbox and your AstroPrint account. Print files that have not been downloaded to the Wolfbox yet will be faded out. You can download them to your Wolfbox, or start the print by clicking on them and selecting either the cloud icon (to download the print file to the Wolfbox without starting the print) or the printer icon (to download the print file to the Wolfbox and immediately start the print).

✚ Control
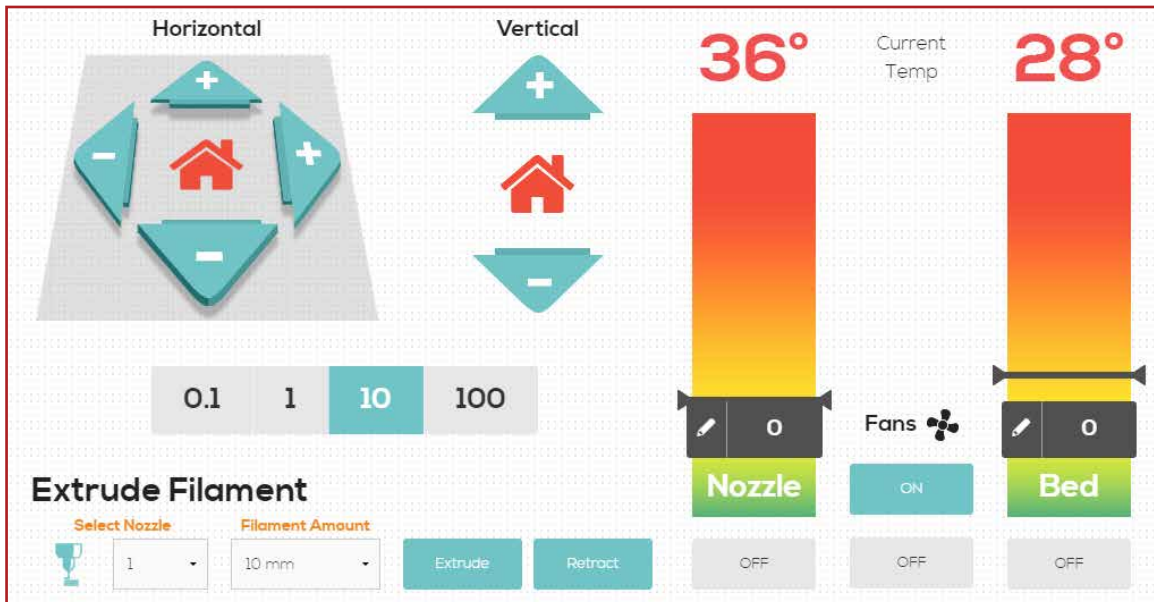
XY Plane (Horizontal)
• X and Y movement of the hot end.

• The house icon will move the hot end to its home position (front left).

Z Plane (Vertical)
• Z movement of the heat bed.

• The house icon will move the heat bed to its home position (the Z limit switch contacts the Z adjust screw).

• The add and subtract options are for distances away from the hot end. So adding distance means the heat bed will go down and subtracting distance will cause the heat bed to go up.

Movement Increment Control
• Displayed in millimeters, the amount of movement you would like in the X,Y, or Z axis.

Extrude Filament

Select Nozzle
• Nozzle one is on the left side of your hot end and nozzle two is on the right.

Filament Amount
• Increment control specific to filament extrusion/retraction.

Extrude
• Clicking this will push the filament through the hot end by the amount selected in "Filament Amount".

∗ *Nozzles must be heated up to temp before attempting to extrude filament.*

Retract
• Clicking this will pull filament back out of the hot end by the amount selected in "Filament Amount".

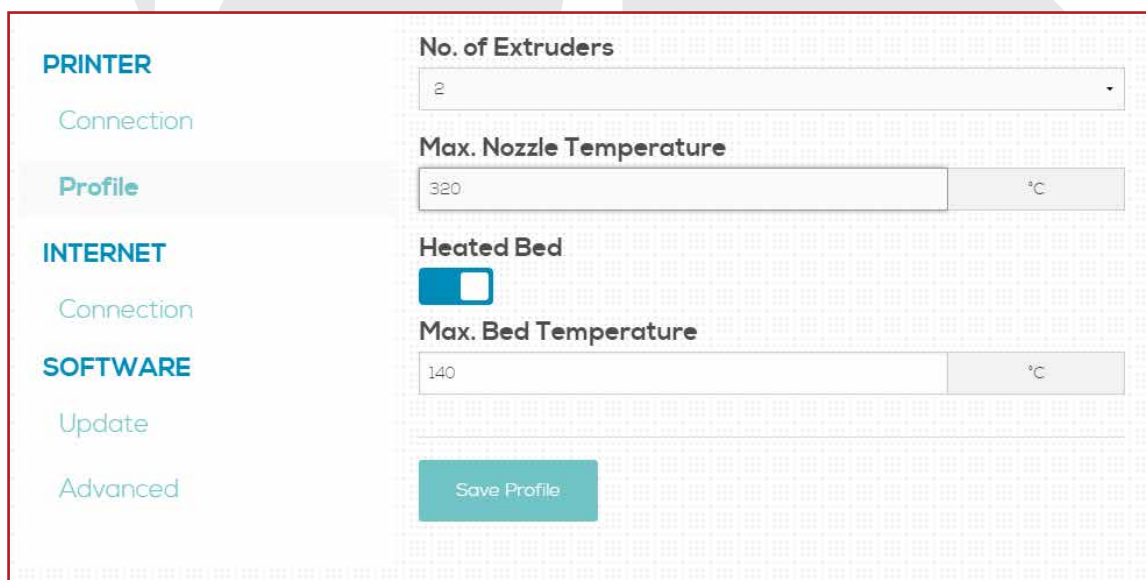∗ *Nozzles must be heated up to temp before attempting to retract filament.*

Current Temp
• When sitting idle, both displays will read room temperature in celsius.

• The Temperature Controls are the scrollbars at the bottom. This allows the user to control the hot end temperature, as well as the heat bed temperature.

• The side fan on the hot end can also be turned off and on with the ON/OFF button.
    • The fan on the back of the hot end is controlled by the printer, not the user.

Supplies

This tab will take you to Airwolf 3D's Store for stocking up on Wolfbite, glass, filament, etc.

Settings

Printer

Connection
• Here you can change the Baud Rate to 250000 if this step was missed previously. If you are ever having connection difficulties, "Test Connection" is also available here.

Profile
• Maximum temperatures for your printer. Do not changes these to temperatures your printer is incapable of.

Final Wolfbox Setup
• Some settings will need to be modified for your model printer (*see page 12*).

Internet

Wireless Connection
- View what network you are connected to.
- IP Address location.

Local Hotspot
- After setup, the hot spot is shut off for security purposes. If you would like the hot spot to remain on, uncheck the box for "Turn hotspot off when a known network is found in the future".

- You can still connect directly to the Wolfbox by navigating through astroprint.com to monitor tab, typing the IP address in your browser, or going to your printers network folder and clicking on your printer under "Other Devices".

Software

Update
- Check for recent updates.

Advanced
- Restore Factory Settings.
        Disconnects the Wolfbox from the Astroprint account and Wi-Fi network, and turns on the hotspot.

Logs
- Send logs to Astroprint. This option is used for troubleshooting errors with astroprint. Checking the "Turn on serial logs" should only be used if there are communication errors occurring.

Support

This tab will take you to Airwolf 3D's Tech Assistance Portal (**https://airwolf3d.freshdesk.com**)

- Solutions are available for everything from Unboxing the Printer, to Maintenance and Troubleshooting.

- Submit a Ticket for assistance from our technicians!

Wolfbox Interface

Final Wolfbox Setup
Change these settings to match your machine

HD2x
No. of Extruders: **2**
Max. Nozzle Temperature: **320**
Heat Bed: **On**
Max. Bed Temperature: **140**

HDx
No. of Extruders: **1**
Max. Nozzle Temperature: **320**
Heat Bed: **On**
Max. Bed Temperature: **140**

HD/XL
No. of Extruders: **1**
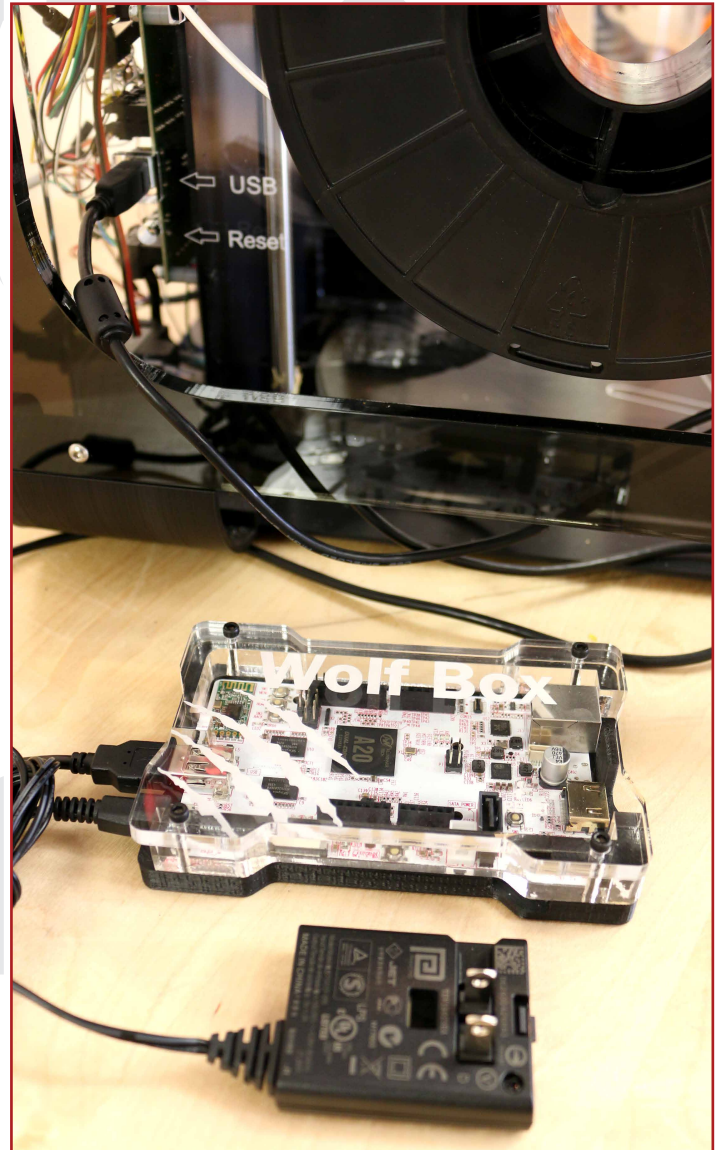Max. Nozzle Temperature: **260**
Heat Bed: **On**
Max. Bed Temperature: **125**

HDL
No. of Extruders: **1**
Max. Nozzle Temperature: **260**
Heat Bed: **Off**

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visit us at www.airwolf3d.com   facebook/Airwolf3d   @airwolf3d

For technical support visit:
https://airwolf3d.freshdesk.com