

# By the Peopoly team.

#### Introduction:

Thank you for purchasing the Phenom Noir . We wrote this user guide as both instructions and references for beginners and advanced users. If you just received the Phenom Noir and need a walkthrough of how to set up your printer, please see the <a href="Quick Start guide">Quick Start guide</a>.

# Product specs, details, and information;



**LCDPannel**; 3840 X 2160 (UHD / 4K)

**Print Volume** 293.76 X 165.24 X 400 MM

Pixel Pitch 79um

Screen Aspect Ratio 16:9

**UV Light Power** 80W

**Printer Size** 46.5 X 37 X 78 CM

**Shipment Size** 91 X 58 X 51 CM

Vat Volume 2kg

Build Material Metal and Acrylic

**Color** Dark Gray and Orange

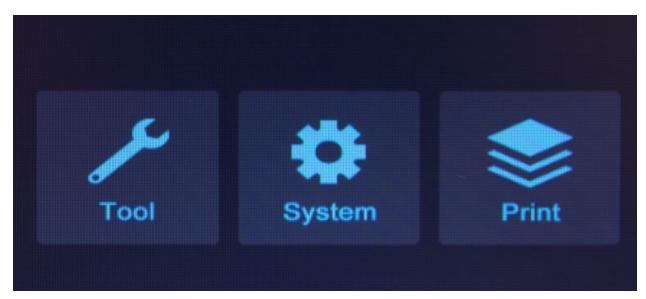
Physical Weight 43KG

Shipping Weight; 48KG

Power consumpt110v/220v

## **Touch Screen Menus:**

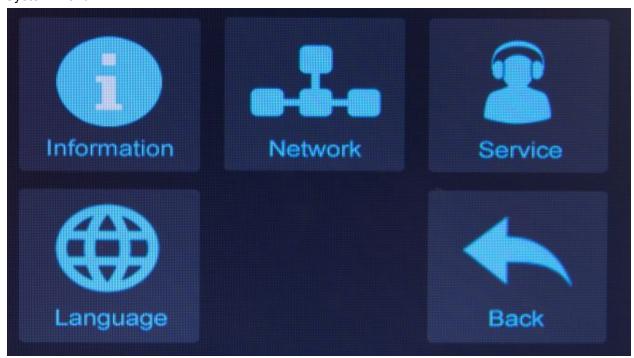
Main Menu:



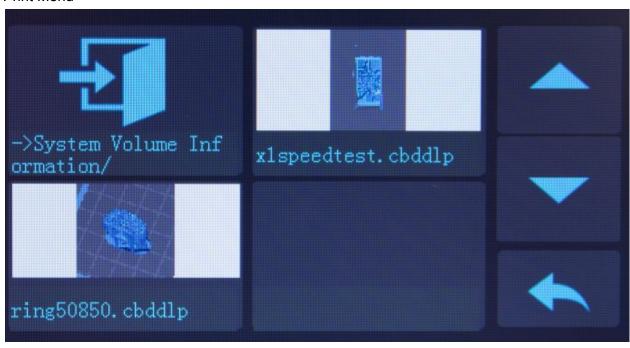
Tool Menu:



# System Menu:



# Print Menu

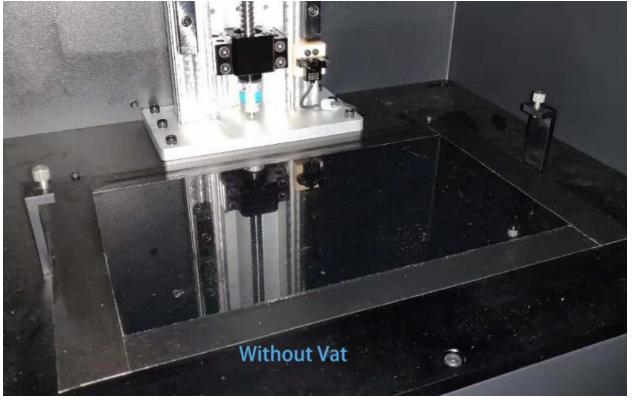


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## How to install vat,

The Phenom Noir vat is made of aluminum and special fep film and has a silver color. It is purpose is to hold the resin for printing. Installation and removing vat is very simple, loosen the Vat Screw so there is enough clearing, slide the vat in the space and tighten up the screws on both side. Make sure to push the vat all the way in before turning on the screws.

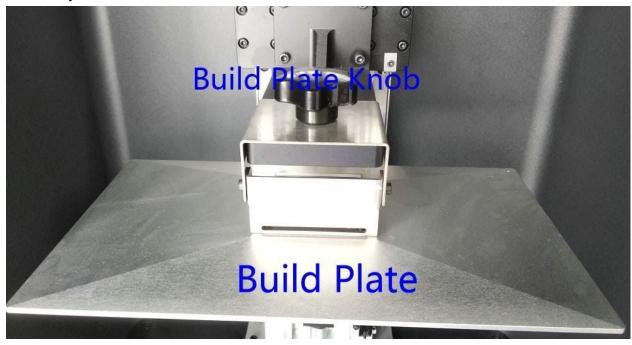


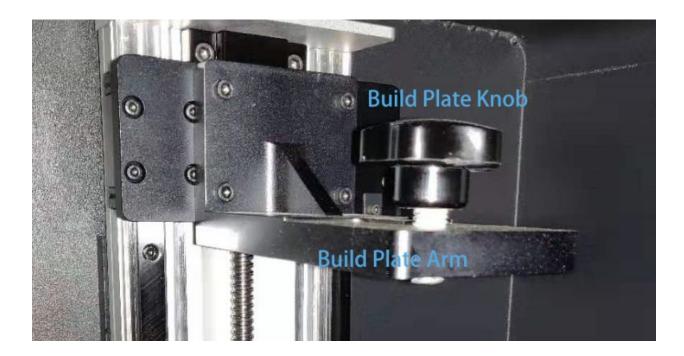


Removing the vat is just the reverse of the steps of the vat installation. Before removing a vat, make sure there is no resin on the build plate so it does not drip down to the glasses underneath the vat. If there are resins on the build plate, please remove the build plate BEFORE removing the vat.

#### **How to install Build Plate:**

Build Plate is the surface made of aluminum where the prints will cure and stick. It is of silver color with a metal handle on the top. The handle is where it connects to the plate arm and secured by the Build Plate Knob





Before removing a build plate with resins on it, make sure there is a resin vat installed so the resin does not drip on to the screen glasses.

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#### **How to Print**

To start a print,

- Make sure there are enough of resin in the vat, if not, add up to half of the capacity of the vat. It is a good practice to have at least half vat of resin when printing.
- If you need more than half vat of resin for a large print, only add when the print has started. The vat can hold close to 2L of resins
- Make sure the vat screws are tightened
- Make sure the build plate screw is tighten
- Turn on the printer
- Insert the USB drive with the file you want to print (Read "How to prepare files" for more info on creating print files
- Press the Print Menu



- Select the files you want to print,



- check the visual preview before confirming by pressing play

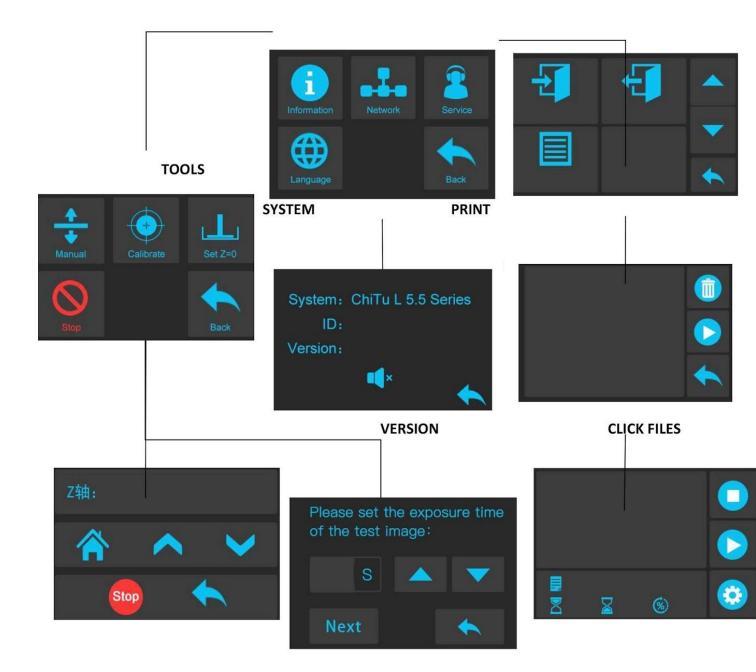


You will see the build plate dropping down and once it hits the bottom of the vat, the UV light will start to hitting on the resin and that is where the printing (curing) starts. You will not be able to see the UV light with the plate down but if there is no plate, this is how it would look like:



**Menu Operation:** 





	MEN <b>O</b> VE	LIGHTING DETECT		PRINT	PRINTING
Y.	Enter the Print Menu		^	Page up	
<b>O</b>	Enter the System Menu		~	Page down	
TODAS	Enter the Tools Menu		5	Return to the Home Menu	
	SYSTEM			TOOLS	
A	Change language(I	English/Chinese)	**************************************	Move axis	manually
BEFVACE	Official website and after sale contact  Product information  Return to Home Menu  CLICKS FILES  Delete the current file		U V	Screen test	
(j)			1	Reset the zero point	
STILLIN N			<b>⊘</b>	Turn off the Z-axis motor	
				Return to Home Menu	
				INFO	
	Click to start print	ing	■ Ø	Change so	und turn on/off
$\supset$	Return to the Print Menu  SERVICE		5	Return to the System Menu	
			MOVE Z		
Return to Syst		Menu	Ottom Torres 10mm	Move Z by 0.1mm  Move Z by 1mm  Move Z by 10mm	
	DETECTION  Click to set the test time				
3 5					
^	Increase the test t	time	10	Return to	zero Z axis upwards
V	Reduce the test ti	me	~		Z axis down
NEXT		or the preset time	0	Stop moving the Z axis	
2	Return to the tool	s menu	5	Return to	Home Menu

#### Software – Installation

Phenom Noir prints CBDDLP files which is format created by Chitubox. To convert your files to CBDDLP, you would need a copy of the Chitubox slicers. It comes in Windows 32/64 version, OSX version as well as Linux excutable.

You can download the version 1.6.4.3 which is compatible with Phenom L here: <a href="https://drive.google.com/open?id=11f0wxQ5l2rcnfiRvSoQ8u3NVtdmUynj6">https://drive.google.com/open?id=11f0wxQ5l2rcnfiRvSoQ8u3NVtdmUynj6</a>

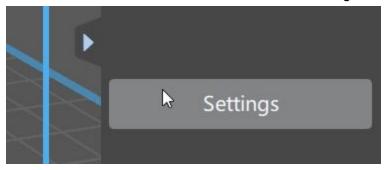


Please make sure you also download the base profile for Deft Resin here: <a href="https://drive.google.com/open?id=1e3Ns2Pfu8AGZkGGxE303aRhSCa8lvAON">https://drive.google.com/open?id=1e3Ns2Pfu8AGZkGGxE303aRhSCa8lvAON</a>

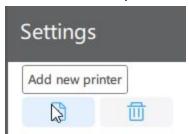
This is for printing Deft Resin at 50um on Phenom Noir. While Phenom Noir exposure control is open to the user, we cannot guarantee Phenom Noir will work with all 405nm UV resin. This is because we could not possibly test all 405nm resins and many not designed for large format LCD printer.

#### Software - Setup

Once the software is installed. Please click on Settings



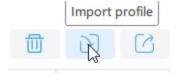
The click add new printer



Scroll all the way down the list to select "peopoly"



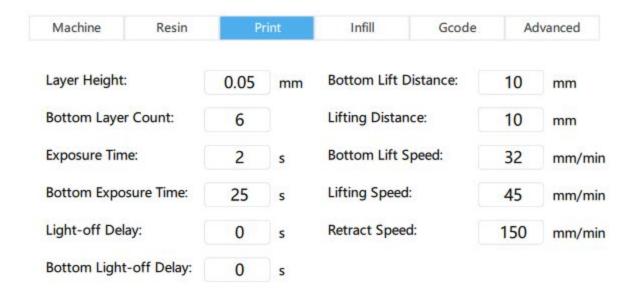
Then Click on Import profile at the upper right corner



And select the profil you justeddownloand

Phenom-Noir\_all\_profile.cfg

Double-check the setting by click Print tab



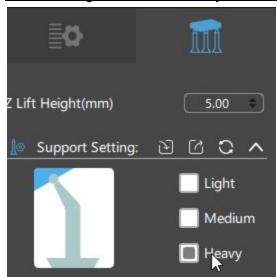
If all the numbers match, then you need to configure for support before you can create files. This is critical as Phenom Noir is a large format LCD printer that requires different support size than small format LCD printer.

It is very easy to configure Chitubox for Phenom Noir .

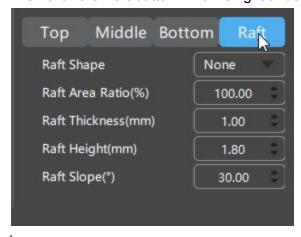
First you click the upper right corner Support icon



Immediate right under that icon, you will see below settings. Select Heavy (not Medium or Light)



Then click the Raft button which is right under the above pic and set Raft Shape to None



Your Chitubox is ready to create files to print Deft resin on Phenom Noir

## Software – Operation

For Chitubux manual, you can download it here

English version <a href="https://forum.chitubox.com/?attach-download-60.htm">https://forum.chitubox.com/?attach-download-60.htm</a> French version: <a href="https://forum.chitubox.com/?attach-download-69.htm">https://forum.chitubox.com/?attach-download-60.htm</a>

There is an online tutorial done by John at VFXforge that you can watch here: <a href="https://www.youtube.com/watch?v=rAqCdJulvcA&list=PLBgYijDrKgjh51y21YPUl2L2S7cY2FJiq">https://www.youtube.com/watch?v=rAqCdJulvcA&list=PLBgYijDrKgjh51y21YPUl2L2S7cY2FJiq</a>

Do not change the settings for support or slicing tho. Those have to match our recommendation for Phenom Noir from the above.

## How to prepare files for printing

For detail Chitubox operation, please see above. Once you have your model set up in Chitubox with good supports and orientation, you can export the model as a file for printing.

You can use this model stl file as a test:

https://drive.google.com/open?id=1EdoWH-uqsLfBRgirZRUrcpakDrFMWruJ

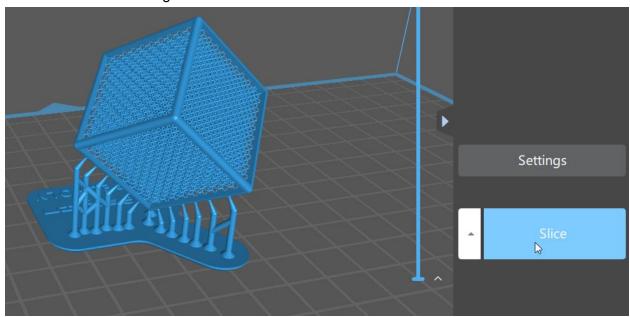
This model does not require support to print successfully.

To create the CBDDLP file for printing

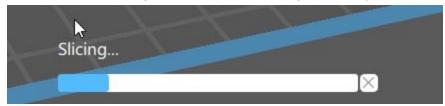
- Make sure you are in the control mode (see upper right corner)



- Click Slice at the lower right corner.

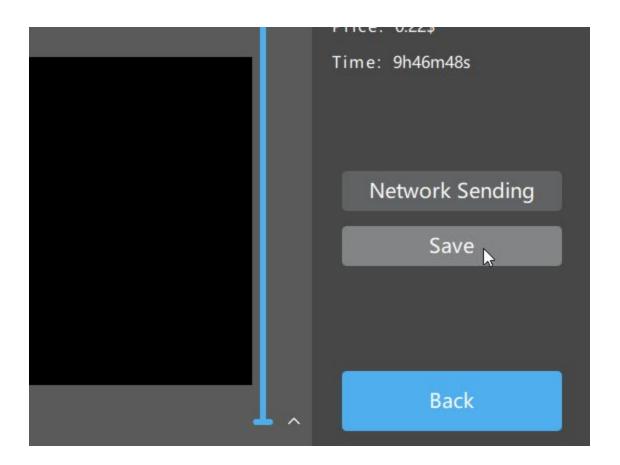


- You will see slice progress bar at the lower right part of your screen

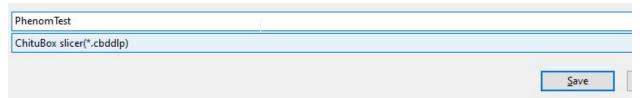


This can take a while.

When it is done, the right side of screen will change to this:



You could use the slider to check each layer. The Save function button shown here allows you to save to CBDDLP format. Click that button and you will get this dialog:



Copy this file to the included USB drive and insert that drive to Phenom Noir for printing.