# USER MANUAL

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A.PRECAUTIONS

1. Do not remove the tape from the build plate.
2. Do not strip the wrapper which wrap up the nozzles, it is for holding nozzle temperature.
3. Use this printer with correct power voltage selected.
4. Beware of hot parts: nozzle, extruded filament and heated build plate.
5. Do not wear gloves when operating or repairing the printer.
6. Do not leave the machine unattended when it's in operation.
7. Do not throw, disassemble, crush, burn your 3D printer or load unsupported filament.
8. Keep your 3D printer and all accessories out of children's reach.
9. When printing via USB, keep stable connection between the PC and the printer.
10. Do not move the print head during printing.
11. Do not pull or twist the black cable any time.
12. Do not force or tear anything during unpacking and setup. This may damage the printer.
13. WARNING
    a) Never reach inside while the printer is in operation. Always allow it to cool down.
    b) If opening the printer for service, ensure that the power supply is turned off and the cord is disconnected.
14. CAUTION
    a) The printer was built and packaged very carefully at the factory. We hope you'll take your time and be just as careful unpacking it and getting it set up.
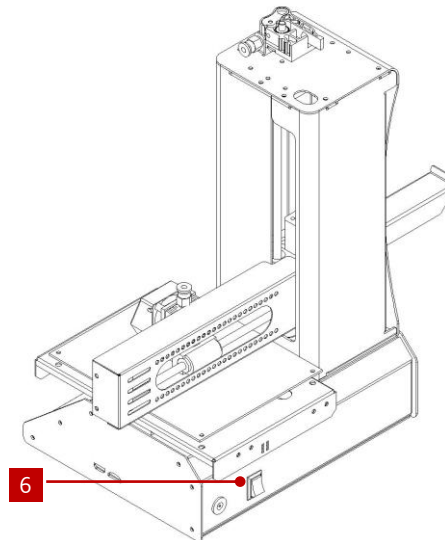
B. CHECK LIST

3D printer	1
USB cable	1
SD card	1
Power adapter	1
Filament rack (Spool holder)	1
Plastic scraper	1
Quick guide	1

C. Component Diagram
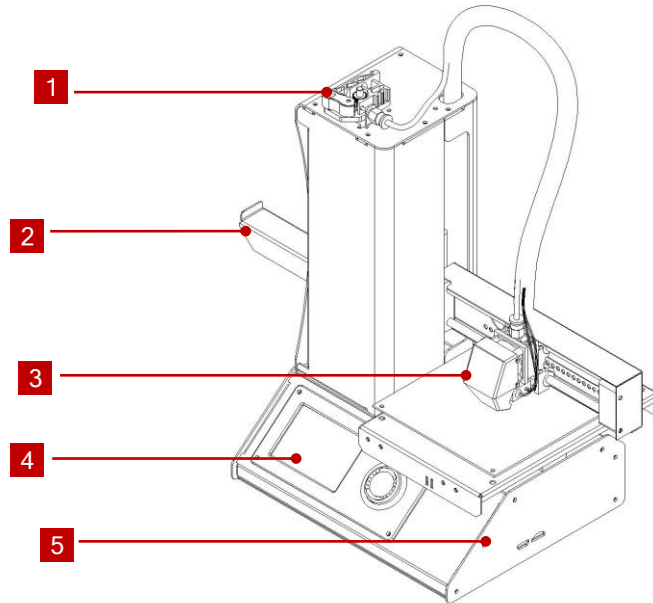
1. Feeding motor with gear
2. Filament spool holder
3. Extruder / print head
4. LCD Control Panel
5. USB and SD card slot
6. Power supply interface and Switch

D. LCD MONITOR MENU

Print	Off-line print Gcode files from SD card
Monitor	
Extruder	Preheat extruder
Platform	Preheat platform
Start Preheat	Preheat all the above
Move	
X Axis	Rotate knob to move extruder along X axis
Y Axis	Rotate knob to move extruder along Y axis
Z Axis	Rotate knob to move extruder along Z axis
Extruder	Control extruder motor
Home Axes	Reset positions of all axes

E. TECHNICAL SPECIFICATIONS

Product	FDM Desktop 3D Printer
Usage	Rapid Prototyping, print 3D models, samples, parts, toys...
Construction	ABS with power-coated steel reinforcement
Extruder	Single
Nozzle diameter	0.4 mm (0.015 in)
Positioning Precision	XY 11 microns (0.0004 in), Z 2.5 micron (0.0001 in)
Layer Resolution	100 micron (0.0039 in)
Input Power	100-240V, Max:120W
Platform heating	60℃ for printing ABS, N/A for PLA
Nozzle heating	230℃ for printing ABS, 190℃ for PLA
Filaments	1.75mm diameter PLA (recommended), PETG, ABS
Interface	USB and SD
Build Surface	Aluminum plate
Supported File	STL, OBJ
OS	Windows 7 - 10, Mac OS X, Linux
Certificate	CE, ROHS, FCC, ISO 9001:2008
Warranty	12 months
Product Dimension	28.3x19.0x33.8 cm
Build Volume	12.0x12.0x12.0 cm
Shipping Box	0r42.0x24.0x24.0 cm

F. INSTALLATION

HARDWARE INSTALLATION ON PRINTER

1 Adjusting platform

The heated build plate has been adjusted before leaving the factory, but it may be a little deviation during transport, and affect the printing quality. So, you might need to adjust again.

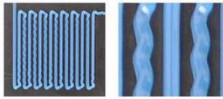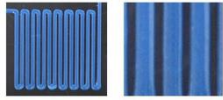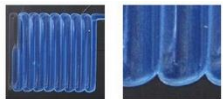Adjust the platform height by hexagon wrench that comes with machine.

- Rotating the platform screw clockwise, increase the distance between the platform and the nozzle.
- Rotating the platform screw counter clockwise, reduce the distance between the platform and the nozzle.
- Please move the extrude to the four corners of the platform to calibrate the height.

Please keep the distance between platform and nozzle distance around 0.5mm (A4 paper thickness).
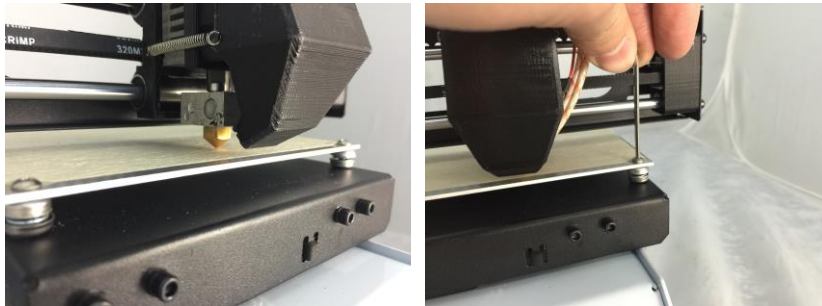
When do I need to adjust the platform?

• If the distance between the heated plate and the nozzle are too big. (should not be more than 0,1-0,2 mm – equal to a sheet of paper)
• If the heating plate is too close to the nozzle, it will directly affect the print and could damage the build plate.
• Leveling the build plate before printing helps to ensure the printed object sticks to the build plate.

| wrong | | Nozzle and platform too far, you need to level the build plate. |
| correct | | Correct distance. |
| wrong | | Nozzle and platform too close, will damage the nozzle and the build plate. |

2   Now you can preheat the platform and nozzles by selecting "monitor" on LCD then set the target temperatures (Extruder 230℃ for ABS,200℃ for PLA; Platform 85℃ for ABS, 45-60℃ for PLA) .
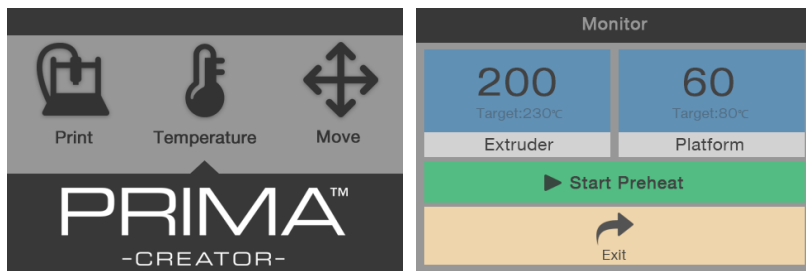
3   Install the filament spool holder on the left side of the machine and hang the filament up.

4.   When the temperatures are ready, cut the top of filament into a sharp angle, and then press down the feeding handle. Thread and push the filament through, stop pushing when the filament comes out from the nozzle.
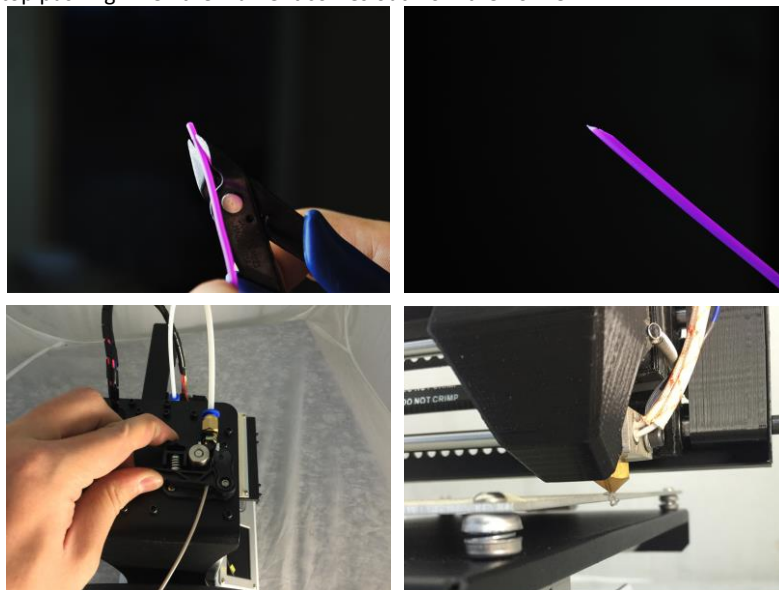
G . SOFTWARE INSTALLATION ON PC

Install the correct modified version of Cura or Repetier-Host from our supplied SD card.

1.1 Cura Operation instructions

Overview

We recommend that new users start with Cura as it includes a slicing engine.

Slicers

These programs take the PrimaCreator P120 (typically STL/OBJ) and determine the 3d printer tool path based on the options selected. The slicing engine uses the nozzle diameter, printing and movement speeds, layer height and other variables to determine the coordinates where it needs to move and the rates at which it will do so. This information is exported out of the program as a Gcode file. The Gcode file is a plain-text file with a series of text-based codes and a list of the complete X,Y and Z axis coordinates used for printing the 3d model.

Setup Cura

Cura is available for download on our website at
www.primacreator.com/downloads
When installing, it is recommended to uninstall any previous versions of Cura you may have been using. When first opening Cura, you will be prompted to go through the first run wizard. This will consist of selecting your printer. It is important to select the correct printer, as Cura uses custom profiles and machines settings based upon which printer you are running.

1.2 Installing Cura

Download Cura from our website and run the exe file the very first screen you will get is to choose the file location choose the location and press next as shown below:
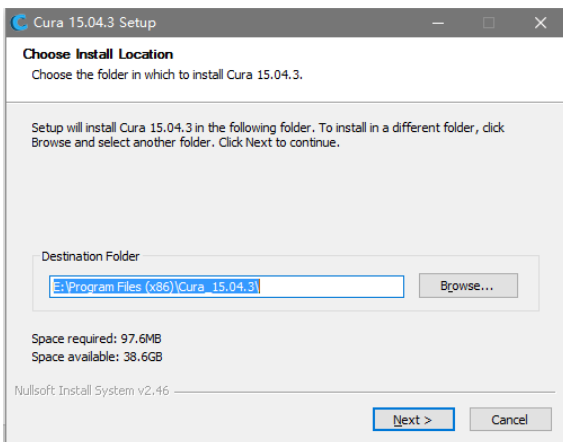
After pressing "next" the screen will ask you to choose the component and the formats you would like to open in Cura. Make the selection as bellow and press next.
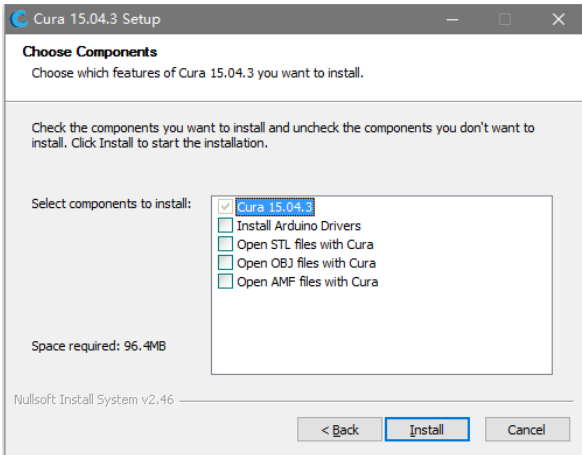
Now press next to complete the installation
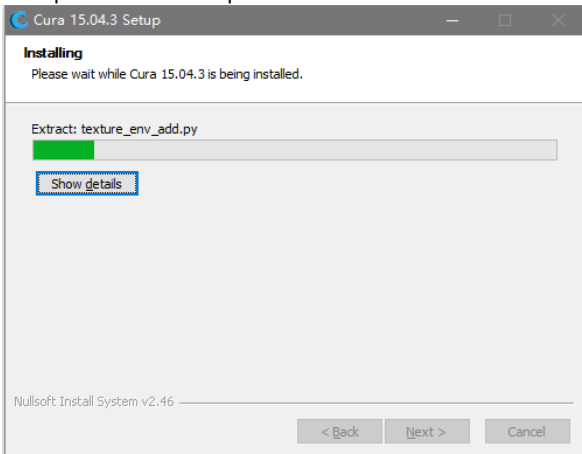
Now press finish button to finish the process:
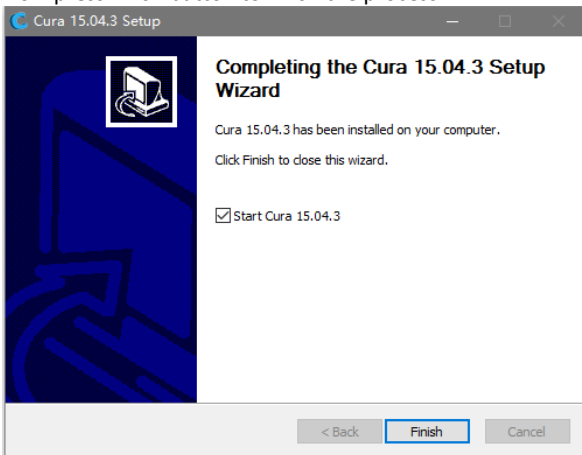
Now you will see the front screen of Cura with all the options as shown below:
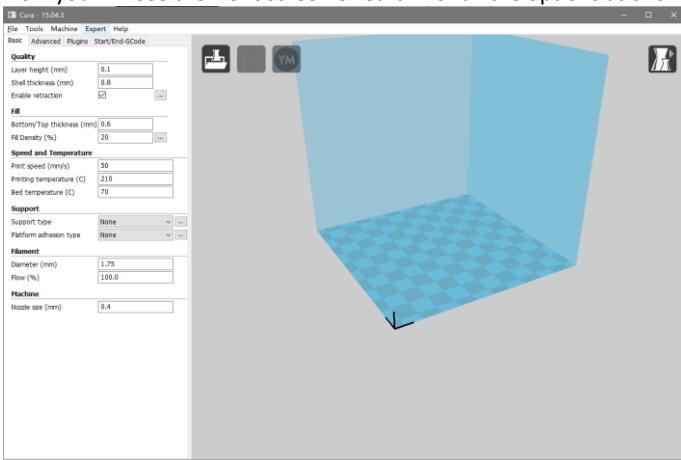
To print with our machine, go to "machine" option in the header and select add new machine option.
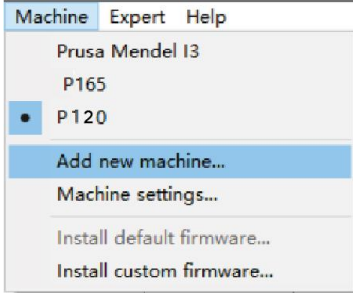
Now select "others" and press next.
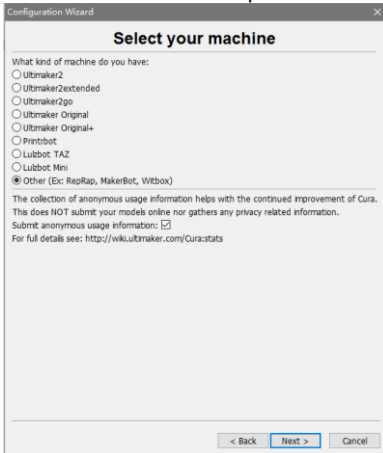
Then choose Custom and click next.
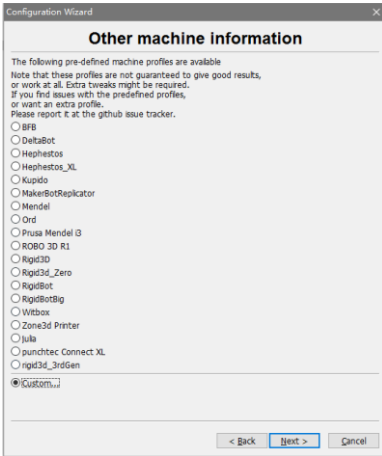
Then modify the parameters.
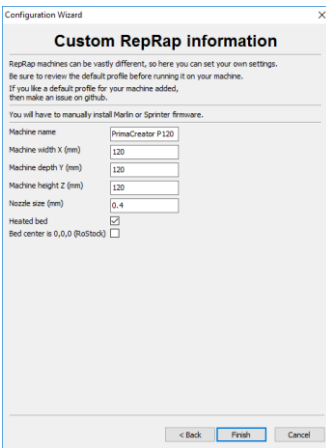
Now press "Finish" and you will be redirected to the below screen:
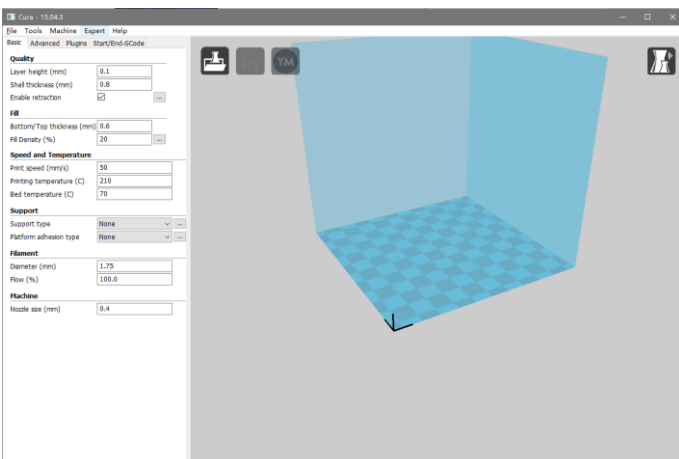
Now load the object with the "load" file button as shown below and make the changes in the parameters as shown in the image.

1.3 Quick Print Settings

After setting up Cura for the first time, you will be shown the main interface screen.

Selecting a Quick Print Profile

The print quality settings can be found in the top left-hand corner of the window. For most filaments, there will be High Quality, Normal Quality, or Fast Quality options. Some of the more exotic filaments may only have a Normal Quality profile.

High Quality

Designed to give greater detail and finer objects. This will have a smaller layer height, which will make each layer thinner, so that curves seem more natural and walls seem less noticeable. This setting will also require more layers to be maid, increasing overall print time.
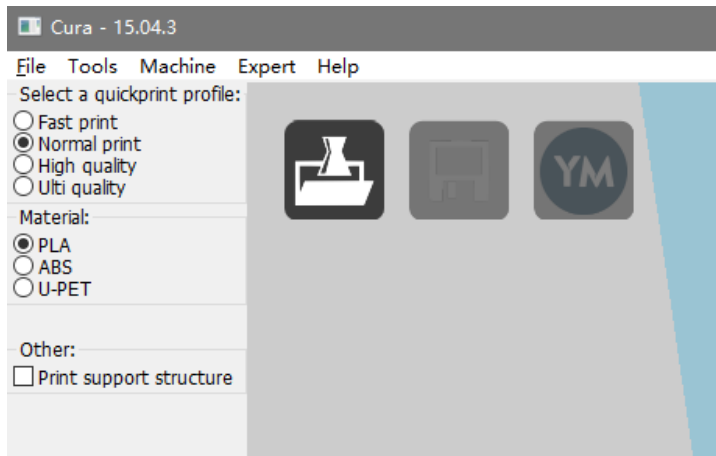
Medium Quality

Designed to give a medium resolution, by increasing the layer height and print speeds. This will make the organic curves slightly more step-like than the fine setting, but will reduce printing time.

Fast Quality

Designed for the fast prints, where overall model finish is not of concern. Most commonly used for quick iteration of designs found in rapid prototyping.

Material Selection

Choose your desired filament. The PrimaCreator P120 ships with a 5 meter sample of PLA, that should be used in your first print.

Printing Support Material

The PrimaCreator 3d printer is able to print models that have angles and overhangs, even without support material depending on the overhang distance and angle. Turn this option on if your model could benefit from support material.

Brim

Brim is used to increase surface area of the part your printing, thereby ensuring proper part adhesion. This will print a single layer high edge around the outside of the part, helping first layer adhesion and minimizing warping. Around the outside of the part, helping first layer adhesion and minimizing warping.

Load Model File

Select the model that you would like to print. Either use the load Model button or select File＞Load Model. Once the file has been loaded, you will see a 3D rendering of your object on the build platform. Select the model to see the various options.

Model Orientation

Move your model to change where it is printed on the build plate. Do this by left clicking on the model and dragging it to the desired location. The black outlined corner represents the lower left had corner of the build plate on your printer. You can also Right Click and hold in the build screen, to view your model from different angles.
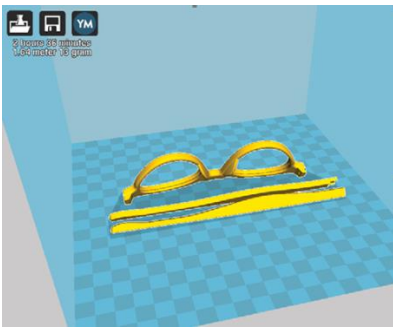
Rotate

The Rotate button will give you the ability to orient your model in along all three axes. Once you click the rotate button, three circles will surround your model. The red circle will allow you to rotate around the Z axis. The Yellow circle will rotate around the Y axis. The Green circle will rotate around the X axis.
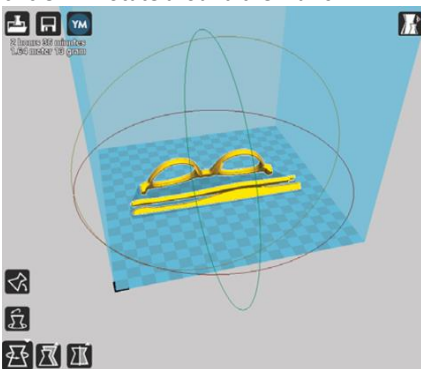
Lay Flat

The Lay Flat button will ensure that the flat portion of your print is securely attached to the bed. It is highly recommended to use this option after rotating your model in the Z direction, as it will help prevent adhesion issues during the print.

Reset

The Reset button will return your model to the original orientation as defined by the CAD program used to create the model.

Scale

The Scale button displays the model dimensions, along with the ability to scale along the X Y or Z axes. Anything below the number 1.0 will reduce the objects size, while anything above the number 1.0 will increase the objects size. As a default, it will be set to uniform scaling. This will cause the X Y and Z axes to be scaled by the same amount when you make a change to any of them. To disable this, select the lock in the lower section of the scaling window.
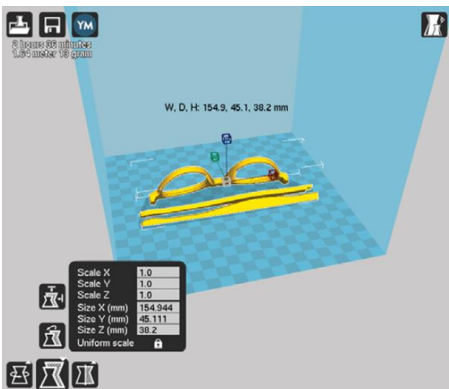
1.4 View Options

This mode allows you to view your model in a variety of different ways. This can be helpful for spotting issues before the print even starts.

Normal

This is the standard view and shows the solid outer surfaces of the model.
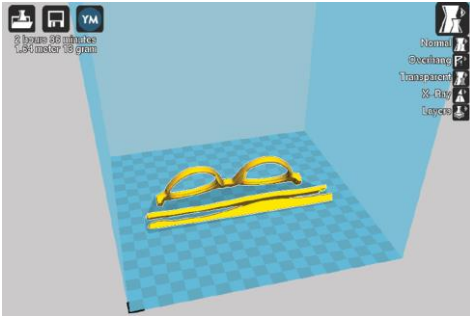
Overhang

Overhang mode shows where your model may need support material. In Fig. 1.6, page 16 the red highlighted areas show overhangs and more severe angles and areas where support material is recommended.
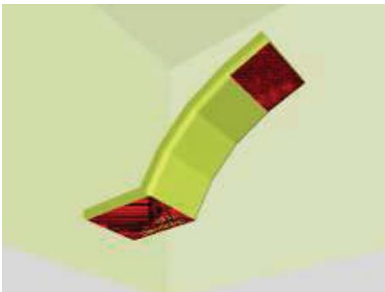
Ghost

Ghost view mode makes the model translucent to allow you to see what is behind it.
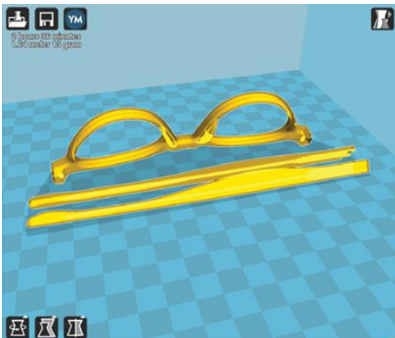
Xray

X-ray is very similar to Ghost mode. It will allow you to see into objects, ensuring that inner details are correct.
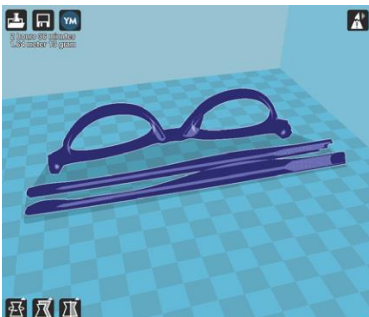
Layers

To view the tool path of your print head and to ensure no skipped layers or gaps use this option. Use the slide bar on the right had side of the window to move up and down through the tool path layers.
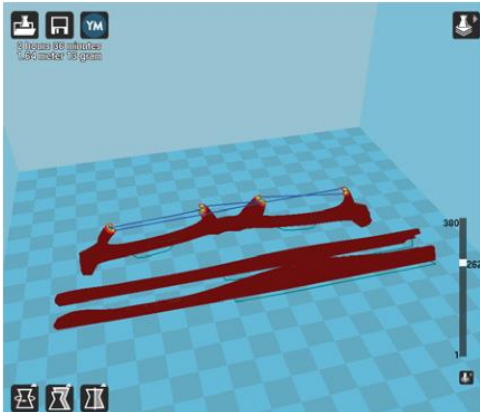
1.5 Starting Your First Print

Once you have your model, profile, and filament loaded, it is time to make your first print!

1.6 Removing Your First Print

After your first print is finished, you need to wait for the part to cool down. The object will be easier to remove if you allow the heated bed to cool down to idle temperature. This will allow the plastic to contract, making it easier to remove. Your print bed will move forward once it is ready to be removed. Once your heated bed has cooled down, use the handled knife that was included with your printer to remove the item. Carefully insert the blade of the knife between your print and heated bed. Once underneath the part, rotate the blade-lifting with the sharp edge into the part, to gently pop the piece off your plate.

1.7 Full Settings

Full settings should not be used until enough experience with 3d printing has been gained to feel comfortable with all aspects of the printer and its operation. The simple settings will provide good results for most models. The first time Cura is launched it will default to the Quick Print interface. In order to have more control of your slicing and G Code generation, switch to Full Settings. Select Expert＞Switch to full settings. The following tabs will now be available: Basic, Advanced, Plugins, and Start/End-G Code. You will also have access to Expert Settings.
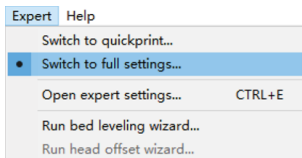
Loading a Profile

When you first switch to Full Settings, Cura will revert to very generic settings. We recommend using our tested profiles that are available on the SD card or www.primacreator.com. You will want to choose the profile that matches your filament and quality needs. Once downloaded, you can load the file into Cura by selecting File＞Open Profile. Choose your desired profile. This will automatically update all of your settings for use with your printer.

1.8 Basic Tab Options Layer Height

The thickness of each printed layer is known as the layer Height. The smaller the layer height, the smoother curves will appear. Larger layer heights are better for bridging and overhangs. Smaller layer heights will also increase print time, as it will take more layers to complete the object.
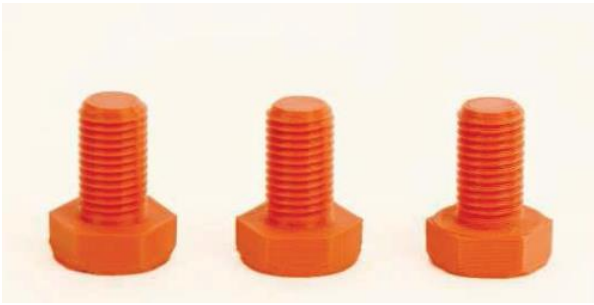
Shell Thickness

This defines the number of vertical walls that comprise the outside of your model. We recommend keeping this set to multiples of your nozzle width. Your Mini 3D printer is equipped with 0.4mm nozzle.

Enable Retraction

Retraction tells your printer to pull filament out of the hot end upon travel moves. Travel moves are when your print head moves from one area of the print, to another without laying down filament. We recommend keeping this on for all filament types, and adjusting the retraction length and speed for the specific filament.

Bottom/Top Thickness(mm)

Also known as Surface Layers. This will determine how thick the top and bottom layers are. A larger number here will create a thicker top and bottom which can be helpful for strength, bridging, and quality purposes. We recommend keeping this number as a multiple of your layer height.

Fill Density

This number is expressed as a percentage. 0% will give a completely hollow print, while 100% will give you a completely solid object. We have found that 20% to 40% fill density is functional for most prints.

Print Speed(mm/s)

Your overall printing speed can be adjusted here. If no other speeds are determined in the later sections your printer will automatically default to this speed. This speed will be different, depending on what type of filament you are using.

Printing Temperature

When using different filament materials, you'll need to update the desired hot end and heated bed temperature. Any temperatures specified here will be used to automatically set both the hot end and heated bed. Your print will not begin until these temperatures are met. The 3D printer needs to have the temperature specified in order to run through the automatic bed-leveling routine.

Support Type

Some models will require support material in order to be printed properly. This will usually occur when an object has an angle in relation to the build plate between 0 to 45 degrees. It is highly recommended to orient your object so that it minimizes or eliminates the need for support.

Touching Build plate

This cause the support material to build up between the heated bed and the object. The red example is Touching Build plate.

Everywhere

This prints support material between the heated bed and object as well as between the object and itself. The green example is Support Everywhere.
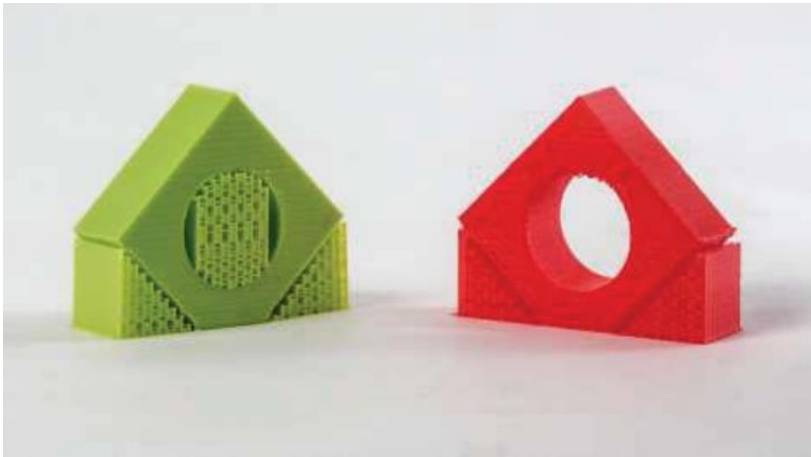
Platform Adhesion Type

Some models have a small surface area contacting the plate. This can create adhesion issues causing your part to pop off at some point during the print. To fix this, use either Brim or Raft. Raft is better used when a model has small heated bed contact points and overhangs.

Brim

Brim will create a single layer of filament, contracting and surrounding your model. This will increase the surface area of the part contacting the build platform thereby preventing it from popping off the heated bed. Brim will also help in situations where you are seeing corner lift. Brim settings can be adjusted in the Expert Settings options.

Raft

Raft will generate a layer of material underneath your object. Raft was more often used before the addition of heated plates to increase surface area. Raft settings can be adjusted in the Expert Settings options.

Filament Diameter

The filament diameter setting is one of the more important settings. Make sure that you update this value periodically with your average filament diameter. While your filament may be referred to as 1,75mm, it is more likely going to be near 1.71mm+/- 0.1mm. You want this to be an accurate average, as it will allow your printer to correctly calculate how much filament it is pulling into the hot bed.

Filament Flow

This controls how much filament your printer is extruding in relation to speed. This setting is mainly used to adjust for filament density variations. Leave this value at 100% as changing it can lead to surface quality issues.

1.9 Advanced Tab Options

Nozzle Size(mm)

This defines your nozzle size. The slicing engine uses this value combined with your other settings to determine how quickly to feed filament into your hot end. The PrimaCreator P120 ships with a 0.4mm

Retraction Speed(mm/s)

Retraction Speed determines the speed at which your filament is reversed out of the hot end for travel moves and when changing direction during printing.

Retraction Distance

Retraction Distance determines how much filament is pulled out of your hot end on travel moves and when changing direction. You will want to adjust this depending on temperature settings and filament type. Higher thermal retaining filaments such as PLA behave better with a longer retraction distance. We have found anywhere from 1mm to 3mm is a good starting range.

Initial Layer Thickness

This will control how thick your first printed layer height is printed onto the heated bed. Having a larger initial layer height will help prevent your part from popping off the plate.

Initial Layer Line Width

This will control how wide your first extruded filament path is for the initial layer. A wider line width will help with bed adhesion. We have found 125% to be a good starting place. For models with moving printed in place parts. A smaller initial layer line width is recommended.

Travel Speed

This setting will determine how fast your print head moves while not extruding filament. A normal travel speed of 80-100mm/s is recommended.

Bottom Layer Speed

This will control your initial layer speed. In general, a slower initial layer speed will help with first layer adhesion.

Infill Speed

This is how fast your print head speed will be while laying down the interior portion of your model. Faster speeds are usually tolerable here, as none of the infill will be visible from the outside of your object. If you go too fast compared to your inner and outer shells, you can have adhesion issues or globs of filament left behind from the print head

Outer Shell Speed

This will be the outermost surface of the model. This is the most important setting, as rolls the speed of your print head on the visible layers. As a general rule of thumb, the slower you go the better-looking print you will get.

Inner Shell Speed

This affects vertical walls that are in between the outer shell and infill. This will not be visible but will help support the outer shell and the infill. We recommend keeping this speed setting between your infill and your outer shell speed.

Minimal Layer Time

This will determine a minimum amount of time your printer will spend laying down each layer. If your layer print time falls below this your printer will automatically slow down to reach this time before moving onto the next layer. Tweaking this can help get cleaner, crisper prints.

Enable Cooling Fan

Enables operation of your extruder's active cooling fan. The fan settings can be adjusted in the Expert Settings options.

1.10 Plugins

Plugins are custom settings which will alter your print at specific points. The two that come pre-loaded with Cura are Tweak at Z, and Pause at Height. More plugins and information can be found here: http:wiki.ultimaker.com/Category:Cura Plug in to activate one of these highlight the desired plugin and click the drop-down arrow directly below the plugins box.
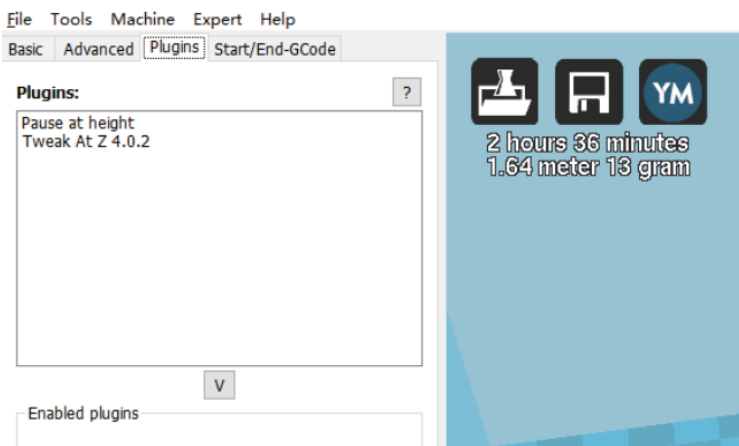
Tweak at Z

Make basic changes at specified Z heights. You can determine the Z height or layer count at which You want to make a change. Then choose how you would like to change your settings. You can alter temperatures, fan speeds, and print speeds. Fine turning these for specific STL files, can produce cleaner prints.

Pause at Z height

Pause your print at a specified height. You can also specify where to move the print head and how much filament to retract. This will prevent "blobs" from accumulating on your print while paused. This setting is most commonly used when switching colors of filaments in the middle of a print.

1.11 Start and End G Code Settings

Custom Ggode allows for complex automatic printer movements and operations. By adding custom Gcode into the start or end of the file, you can alter how it prints. A comprehensive list of Gcode commands can be found here: http://reprap.org/wiki/G-code.

1.12 Expert Settings

Expert settings will give you more specific options for your retraction, skirt, active cooling, infill, supports, brim, raft, and special settings. To gain access to this section you go to Expert＞Open Full Settings or on your keyboard press Control+E.
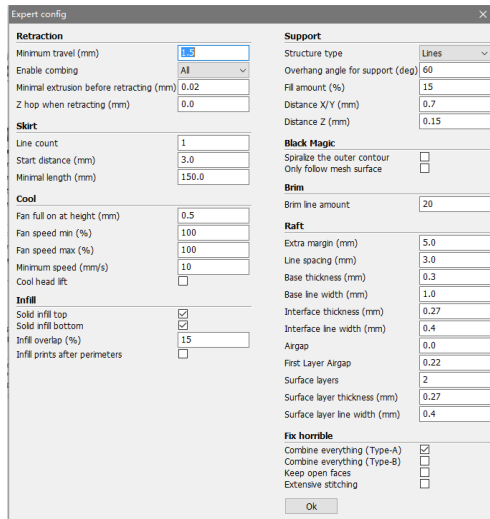
1.13 Retraction

Retraction pulls filament out of your nozzle when it is not extruding to prevent the print head from dripping down into the object. This section is where you will control how your extruder retracts its filament.

Minimum Travel

This sets the minimum travel distance of your print head in order to retract. If the print head is not moving this far during travel moves, it will not retract.

Combing

This option prevents the print head from traveling over holes in the X/Y axis when printing. This will slightly increase print time, but will prevent strings from getting caught on the holes during travel moves. We recommend keeping this setting on.

Minimal Extrusion Before Retracting

This will control the distance at which retraction occurs if the printing movement exceeds the minimum extrusion amount. This will prevent a retraction move, if the extruder has not put out X mm of filament since its last retraction. Z hop when retracting this will raise the print head X mm while retracting. This setting helps prevent ooze, and strings from being deposited on your print.

1.14 Skirt

Skirt creates a line around the outside of your object. Most commonly used to prime the extruder, in order to prevent missed filament at the beginning of a print. Leave this setting on.

Line Count

This will define the number of loops the Skirt creates around the outside of the object. Smaller models will require more loops to properly prime the extruder.

Start Distance

This will define the distance away from the model that the skirt will be created. If using as an envelope to prevent drafts, it is recommended to be closer to your object.

Minimal Length

This will define the minimum extruded line length for the skirt. This will over ride your line count, producing as many lines as required to reach the minimal length.

1.15 Cool

This section will define how your extruder cooling fan will operate during the print. Your fan will not start until it has reached 25% or higher for speed settings. If your print speeds are slowed down due to minimal layer time, the fan will run between minimum and maximum speed based upon how much the layer is slowed down.

Fan on at Full Height

This is your Z height where your fan will be turned on to its minimum percentage setting. Especially helpful with high temperature retaining filaments such as PLA. This will be scaled between 0% and your minimum fan speed based upon layer height; with it being disabled for the first layer.

Fan Speed Min

This will be the speed your fan runs when enabled at full height. Once the Z height is reached for fan on at Full Height, this will be the speed your fan runs at.

Fan Speed Max

This is the fastest speed at which the fan will ever run. When a print speed is slowed down due to minimal layer time, the fan will run between minimum and maximum speed. The maximum fan speed is reached when the printer much be slowed by 50% or greater.

1.16 Support

You define how your support material is generated here. You must have some form of support turned on in the basic settings in order for these settings to have an effect.

Structure Type

You can choose between a Grid or a line pattern for your support material. The grid will be a checkerboard pattern in the X and Y direction. The line option will produce lines in along the Y axis for support. The grid will provide stronger support than the line option, but will be harder to remove.

Overhang Angle for Support

This will determine where support material is generated. In general, you will be able to print a model with 45 to 90 degree angles in relation to the bed without support. We recommend leaving this setting at 45.

Fill Amount

This will determine how dense the support material is printed, similar to infill percentage. The higher percentage the better support, but it will be harder to remove the support material and will use more material.

Distance X/Y

This will determine how far away from the object in the X/Y plane that the support material is being placed.

Distance Z

This will determine how far away the support material is from the object in the vertical direction. A smaller number here makes for better support, but makes it harder to remove.

1.17 Black Magic

This section allows you to transform the model into a hollow shell, a single layer thick. Spiralize the outer contour this causes your Z axis to be constantly moving upward as printing your single outer wall shell. The results are no layer change lines, giving a much smoother surface. This setting is typically only used for artistic objects as they will be fragile.

Only Follow Mesh Surface

This will cause your print to follow the outside of your model, building it completely hollow with a single wall outer shell. The only difference between this and spiralize, is that the Z axis moves regularly. That is, it prints a layer and then moves up to the next one.

1.18 Brim

Brim circles the base of the print while making contact, helping adhere the print to the heated plate. This is only one layer thick, and easily removed post-print. This section defines how the brim is formed when brim is activated in basic setting.

Brim Line Amount

This will determine the distance the brim will cover around the outside of your object. The more brim used, the better your part will adhere to the plate.

1.19 Raft

Raft is a platform built underneath your object, designed to help adhesion, and prevent warping. It will lay down support material, and then a platform on top of the supports. The model will be built on top of this platform. The bottom surface of the printed object will not be as clean or as even when using this option. Raft is typically not recommended.

Extra Margin

This determines the distance around the outside of the object that the raft is created. Can be helpful for ensuring no warping of ensuring no warping of the lower layers.

Line Spacing

This will determine the spacing between the "support" lines for the raft. A small spacing makes the support structures closer together improving strength of the raft, but uses more material.

Base Thickness

This defines how thick your raft will be.

Base line Width

This will define how wide the" support" material is for the raft. This setting will determine how well the surface layers of the raft print.

Interface Thickness

This will determine how thick the surface layers of the raft are. The surface layers are the platform that is built upon the supports.

Interface Line Width

This will determine how wide the top layers of the platform will be. In general, you can keep this set to your nozzle size, as surface quality of the removable raft is not important.

Air gap

This will define the distance between the raft and the object. A large gap will make the object easier to remove, but will make the bottom of your print look worse.

Surface Layers

This will determine the number of layers that create the" platform" of the raft. If you have a wide line spacing, you may want to increase this number to ensure a solid platform.

1.20 Fix Horrible

These are some of the more advanced and experimental options. They are designed to help repair models with errors to make them suitable for 3D printing. They do not always work. Please be cautions when using these options as they can have unintended effects on your print quality.

Combine Everything (Type-A)

This will attempt to fix all external mesh errors, while keeping internal holes intact. This can coincidentally fill in intentional internal holes. Combine Everything (Type-B）This will ignore all internal holes of the model and only focus on the external holes. This is helpful when only the outside finish of the model is important.

Keep Open Faces

This will ignore all manifold errors in the object. It can create issues generating the Gcode as Cura does not know how to interpret the open holes. This option should only be used if you are sure that the holes in the mesh are intended, you should not use this option.

Extensive Stitching

This causes Cura to automatically add triangle meshes in an attempt to fix manifold errors. This algorithm will greatly increase Gcode generation time and may end up adding in un-intended meshes. It is recommended that you repair your model through Meshlab or your CAD program before attempting this option.

H. PRINTING

SD PRINTING (RECOMMENDED)

We uploaded sample x3g files in our supplied SD card, you can insert it to printer, click "Print from SD" on LCD, choose the file and print.
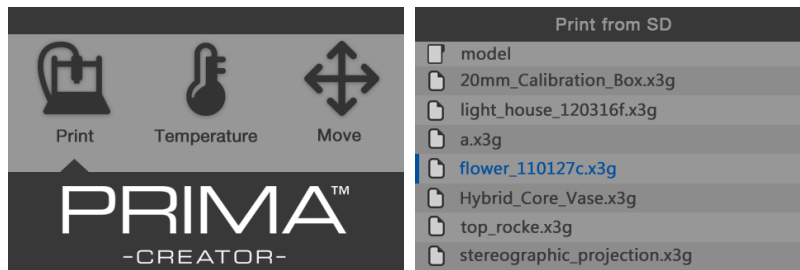
You can also download (from www.thingiverse.com etc) or create 3D STL files, enable our Cura, generate to Gcode and then save to SD card and print.

I. Troubleshooting

1   Nozzle seems blocked:

> Please clean the nozzle carefully, check and make sure the extruder motor is rotating and pulling filament and that temperatures are correct.

2   Software prompts timeout, no response while operating:

> Please close software, restart the printer, then reconnect to PC printing.

3   Extruder jam with filament:

> Please turn off the printer, remove the four nuts on the extruder fan and open it, then restart the printer and heat up the extruder to the melting point of filament, use tweezers to remove the residual plastic filament.

4   X/Y/Z axis have irregular stripes on the object while printing finished:

> Please check whether the belt of printer is tight, the moving situation of X/Y motor and the limit switch is normal and the slicing setting of file.

5   Occasionally glitches when inserting the SD card:

> Power off and restart the 3D printer.

6   Objects are warping or non-sticking to the platform while printing:

> Check whether the distance between the nozzle and platform is not too big, or change the tape on the glass.

7   Welcome to visit our webpage www.primacreator.com

J. Maintenance

1. Clean extruder and nozzle frequently
2. Oil the X/Y/Z axis occasionally.
3. Preheat extruder properly before loading filament.
4. Calibrate extruder and platform every time before printing.
5. Keep platform clean and empty when idle.
6. Keep printer away from dust and grime.
7. Keep printer clean and dry.
8. Keep printer in comfortable room temperature.

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