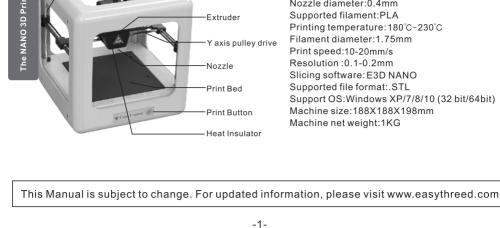


Nano specification: Threaded Rods Building size:90*110*110mm

Guiding Tube

Thank you for purchasing E3D NANO 3d printer. NANO is a kind of consumer 3D printer. It can make your custom creations come to life. Just plug in the printer, download the models,

hit print, and watch as you bring an object into the world through 3D printing.



Printing temperature: 180°C-230°C Filament diameter: 1.75mm

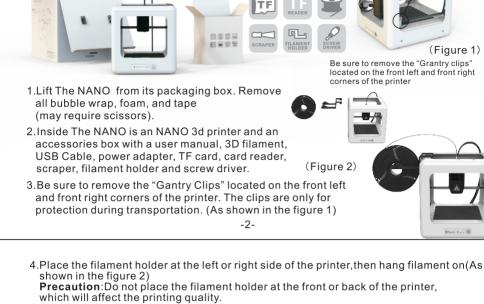
Layer thickness: 0.1-0.3 mm

Nozzle diameter: 0.4mm Supported filament:PLA

Print speed:10-20mm/s Resolution: 0.1-0.2mm Slicing software: E3D NANO Supported file format:.STL Support OS:Windows XP/7/8/10 (32 bit/64bit) Machine size:188X188X198mm Machine net weight: 1KG

1.0 Un-Boxing NANO 3d printer





2.0 Installing NANO Slicing Software

Connect and Power The NANO

This NANO 3d printer runs with its own developed slicing software called E3D NANO, Its in the TF card contains in the accessories box. Please copy to your computer to run the installation program and through all the windows and prompts to complete the

completed, uplug the power adaptor from the back of the machine when it's not printing.

-3-

1. Plug the provided original NANO power adaptor into the socket and the print button

2.If need to power off the Nano after printing is

indicator light should be on.

4.1 Install 3D filament

4.3 One key printing

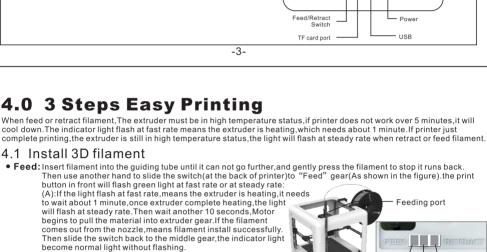
will goes up ②Bed removable after printing

6.0 Maintenance

fire or electric shock.

(2) Precaution:

installation.



Indicator light

Print button

ed

become normal light without flashing.

(B):If the light become flash at steady rate, it needs to wait about 10 seconds, Motor begins to pull the material into extruder gear, filament comes out from the nozzle, means filament install successfully. Then slide the switch back to the middle gear, the indicator light become normal light without flashing.

Precaution:After the first filament installation, there is no need to repeat the work of feeding filament every time, when print different models. Only need to feed when the present filament. Feed. Retract filament every time, when print different models. Only need to feed when the present filaments runs out.

Filament every time, when print different models. Only need to feed when the present filaments runs out.

Retract: If want to replace another roll of filament or the machine does not print for long time. Then needs to retract the filament. First slide switch to "RETRACT" gear, the print button in front will flash green light at fast rate or at steady rate.

(A):If light flash at fast rate, means the extruder is heating, it needs to wait about 1 minute, once extruder complete heating, the light will flash at steady rate. Then wait another 10 seconds, Motor begins to work, use hand to pull the material until it completely retract from the tube, then slide the switch back to middle gear, the indicator light become normal light without flashing.

(B):If light flash at steady rate, it needs to wait about 10 seconds, Motor begins to work, use hand to pull the material until it completely retract from the tube, then slide the switch back to middle gear, the indicator light become normal light without flashing.

Precaution:After feeding and retracting, both needs to slide the switch back to the middle gear(at the back of printer), then the indicator light become normal light without flashing. 4.2 Slicing model

Press print button gently after TF card is inserted. NANO prints automatically after warm-up. While in the printing status, the print buttion in

model. Cura slicing software is good option for experts.

Precaution: ① Printing bed leveling If found the bed is not leveled in the process of printing , then needs to adjust the screws in the bed , Gently rotate the screws clockwise , the bed will goes down , rotate the screws anti-clockwise , the bed

Download models from easythreed model library in TF card or to download from Internet. Then slicing in 3D NANO software and copy to TF card. please refer to the instruction of 3D NANO slicing software to slice

front will flash green light at steady rate. press print button to pause printing.

And Press again to continue printing. Press print button for 3 seconds to stop printing. (as shown in figure)

5.0 Online printing(For Experts): 5.1: Install the USB driver(in TF card or download from easythreed.com) to computer.

Safety Considerations
Caution: Hot! Keep your fingers away from the Nozzle Tip and Black Insulator when the printer is on as these areas reach temperatures over 200 degrees Celsius. Always be sure to keep your hands away

Do not try to use the methods those not described in this manual to disassemble or modify this

 When power is cut off, regularly clean the printer with a cloth to wipe off dust and residue. If a wet cloth is needed, do not use flammable solvents to touch the internal circuit of the printer to avoid

machine, in order to avoid damage to the printer or other more serious accidents.

of "Nano online printing user manual" (in TF card or download from easythreed.com)

from moving parts when NANO is in operation

5.2: Install Cura-15.04.6 slicing software(in TF card or download from easythreed.com $5.3: The \ above \ software \ installation \ and \ how \ to \ print \ online, \ please \ refer \ to \ the \ electronic \ version \ print \ online, \ please \ refer \ to \ the \ electronic \ version \ print \ online, \ please \ refer \ to \ the \ electronic \ version \ print \ online, \ please \ refer \ to \ the \ electronic \ version \ print \ pr$

You can remove the bed from the printer as the picture showing

Recommended temperature for the working environment: 5°C-30°C, do not air the machine body with a fan during the printing process Recommended humidity for the working environment: Relative humidity should not exceed 80%, the minimum should not be less than 20%.

- 7.0 Safety (1) Safety and Warnings:
 children under the age of 10 should use the product under adult supervision. The printhead, exposed nozzle, extruded plastic, and areas near the nozzle may be extremely hot. Keep fingers away from the printhead and extruded material unless it has been unplugged for at least 10 minutes. Use the products in a well-ventilated area. Use the printer only as intended, as described by the user manual. Do not leave the product running while unattended.
- Q1: why the printing head can not move after pressing the printing button in initial printing? A: Please remove the clips in front left and right before using the machine. The clips are for transportation protection.
 - before each print?

 A: (1) adjust the printing bed, need to use the screw driver in the accessories box to twist the bed screws, when twist screws clockwise, the bed goes down, twist screws anti-clockwise, the bed goes up.

 (2) After each adjustment, Needs to unplug the power, then move the printing head along the bed one lap to assure it will not scratch the bed, then can go next step. (precaution: Needs to cut the electricity then can move the printing head by hand, or the motor will be destroyed).

 (3) No need to adjust the bed before each print, but advise to do one time one week. -7-

A: The standard distance between the nozzle and printing bed is the thickness of a piece of A4 paper, Insert a piece

Q6: How to judge what's the best distance between nozzle and printing bed? What is

(1)When it happens in the initial printing, the distance between nozzle and bed is too far, the silks can not stick to the bed, so it would become messy filament. Please twist the 4 bed screws 90 degree anti-clockwise. If still not ok, then please twist 90 degree anti-clockwise again till normal printing.
(2)The bed is with oil, please use dry towel to tidy the bed, do not use hand to touch the bed directly. Q8: How can I move the printing head? A: Please unplug the power, then use hand to move the printing head to where you want. Please do not try to move the head up and down, move along Z axis can not realized by hand.

Q7: Why do there twist lots of filament nearby the nozzle in the process of printing?

Q14: Filament will run out soon in the process of printing, What should to do? A:Please pause the printing, then slide the switch to retract gear, use hand to pull up the filament. (precaution: please do this before all the filament goes into the feeding hole, or there will be no filament hand can pull up). Then put new filament into the hole and use another hand to slide the switch to the feed gear, wait about 10 seconds till the filament come down. Then slide switch to the middle gear and press printing button shortly to resume printing. Please pay special attention that, after feeding 10 seconds, timely slide switch to the middle gear in avoid that the the filament principle appear in the model.

Q16:What's the meaning of light in the printing button?

Q12:Can pause printing in the process of printing?

A:The printer has only 1 light color, that is Green. (1)When the switch is slide to feed or retract gear, it will flash at very FAST rate.

(2)When its in normal printing, it will flash at STEADY rate(flash every 3 seconds).

(3)When pause printing, the light will become normal light without flashing.

Q15:When print the first layer, there is no filament on the bed, why?

THANK YOU FOR USING E3D NANO

www.easythreed.com

(3) Maintenance: Long or improper use, nozzles, nozzle assemble parts, or other may need to be replaced or cleaned, print platforms and its overlays may need to be replaced, the extruder may need to be cleaned. Q2: How to feed the filament and how to judge filament fed successfully? A: First, straighten the filament and gently push into the feeding hole, at the same time, use the other hand to slide the switch(at the back of printer) to "FEED" gear. Then wait about 1 minute(machine is warming up), release the material when feel the filament is caught by the machine. Then wait another 10seconds to observe if there has "silk" coming from the machine. Slide the switch to middle gear when more silks come out. Till this time, filament fed successfully. If you operate based on the above steps, but no silks come out from nozzle after waiting for more than 5 minutes, please re-power machine and try again. Q3: How to retract filament? How to solve when the filament can not retracted. A: First, slide the switch to the "retract" gear. Filament will retract successfully in the normal situation. If failed, please try to feed first, then retract again. Please Pay special attention that, gently pull up the material to help till filament completely get out of the printer. Q4: What's the reason that the model can not stick to the printing bed in the initial printing or in the process of printing? A: The bed is too far away from the nozzle, need to adjust the distance between the bed and nozzle.rotate the screws anti-clockwise, the bed will goes up. Q5: What needs to pay attention to when adjust the printing bed? Need to check bed

None of components of the NANO 3D Printer or parts printed from it or using filaments are certified for food safety nor should they be regarded as food-safe therefore should not come in contact with the mouth or foods/liquids that will be ingested by humans or animals.

of paper between the bed and the nozzle and printing bed is the thickness of a piece of A4 paper, insert a piece of paper between the bed and the nozzle, with normal pull and with resistance as the standard; in the condition that do not scratch bed. The closer it is, the firmer the model will be.

(1)The right distance between nozzle and bed: the "silks" are flat, spread on bed very smooth and no burrs.

(2) The distance is too far: the "silks" are fine round, spread on bed unevenly, with gaps and tilt. filament come down to the bed is by gravity force, the rounded strips' adhesion effect is not good, they are easily moved. Printing effect is very unsatisfactory.

(3) the distance is too close: the "silks" are irregular protrusion(with burrs) on the both sides, but thin in the middle. Or there are no silks coming down. Or the bed is scratched with a deep trace.

Model become mess of silks? A: there are several situation:

the difference when its too close and too far?

Q9: How can I move the printing head up? A: Only in the condition that the printer is power on but is not working, press the printing bed for 3 seconds then release, it will goes up 1 cm. Q10:Does the printer need warming up before each printing? A: There needs to warm up when feed and retract operation. In the normal printing, you only need to choose the model and wait about 1 minute, then printer will start work. Q11:Can the model continue printing if electricity is cut off? A: If there is no electricity in the process of printing, the models can not continue printing.

A: Yes, shortly press the printing button, it will pause. Then shortly press again, it will continue printing.

A: Please press the printing button for 3 seconds then release, then it will stop printing (precaution: can not continue printing after stop).

A:Please check if the distance between nozzle and bed is too close leads no space for filament to come out.

Save and exit. Copy this file to the TF card, press the print button, the printer's X Y Z axis begins to zero. -9-

the filament pimple appear in the model.

Q17:Can the machine print online?

to gcode, S G28 X0 Y0; G28 Z0;

Q13:How to stop printing?

A: Yes, it needs to use third party slicing software CURA. Please refer to the above step of point 5.0 Online printing(For experts) Q18: How can I adjust the machine to Zero? A: First, create a new "text document" on the desktop, change the file name to GOHOME and the extension name to . gcode, Select the file, click right mouse, and select to open with notepad. . Enter the following characters: