## NANO 3D PRINTER User's Manual

7. Always allow the printer and extruded filament to cool before reaching inside. 8. Do not install the machine on an unstable surface where it could fall. 9. When printing with PLA filament, the plastics will create a light odor. Please place the machine in a ventilated, cool, dry area.

EN

nozzle platform

Feed/Retract

TF card slot

power port

Z axis HOME

USB port

188x188x198mm

Easyware, CURA

TF card, USB

12V 30W

30% ~ 90%



PRODUCT OVERVIEW



95x110x110mm

Windows, Mac

STL, G-code

50 / 60Hz

5°C ~ 35°C/ 40°F ~ 95°F

100 ~ 240V AC,

Machine Size

Connection Type

Slicer Support

Maxinum Power

Working Humidity



Please copy Easyware file to your computer and no need installation. Or You can download software Easyware from EasyThreedofficial website directly. And you can watch Slicer operation video in EasyThreed 3D Youtube channel. Easyware slicer can recognize STL file format. (if you want better printing quality, you need to learn how to use

Convert STL file format to G-code format, and save it to TF card, and insert TF

(2) Create your own G-code file using other open source programs, such as Cura or Repetier-Host. These programs use the machine specific information to generate a

To learn more about how to install and operate slicer software, please access to

Pause/Restore During printing, Click , the button light stops flashing, then printing paused. If need to continue print, Click ( to restore, the button light flashes again, the printer goes back to print.

If you want to stop print during printing, long press button for 3 seconds then

If users want to change filament or keep the machine stop working for quite a long

(When printing, if the model does not stick well to the

Screw (adjust height) clockwise to lower the platform ,

anti-clockwise to raise the platform

(4) When the distance between the nozzle and the platform all is right distance in

High quality filament which is preferred to be used. Various of filament are available on the market, and quality is much different too.

Burning, keep your fingers away from the NOZZLE and BLACK INSULATOR when the printer is working as temperature in this area reaches over 200 Celsius degree. Always be sure to keep your hands away from moving parts when it is working.

If the distance

6. Platform Leveling

before delivery.

of a sheet of A4 paper.

4. Stop Print

between the nozzle and the platform is too close, Please turn the screw clockwise, Lower the platform to standard distance. (check the distance is right or not. That is, when drawing A4 sheet, the nozzle should be attached to the A4 sheet without scratching it).

platform, you need to adjust the height of the platform)

(1) Click the button (a), Z axis will move to home position.

Raise the platform to standard distance.

(3) Follow the same way to adjust another 3 points 2 3 4.

① ② ③ ④ four points, leveling is finished and succeed.

Please turn on the power again after platform leveling

You don't need to level the platform for the first time, because the platform has been adjusted

please turn off the power, after turn off the power ,then you can move the X axis and Y axis by hand (2) Move the nozzle to point ①. Put a sheet of paper between the nozzle and the print platform. If the distance is too far, Please turn the screw anti-clockwise,

Please adjust the distance between the nozzle and the platform in ① ② ③ ④points. The nozzle height above the build platform should be 0.1mm, which is the thickness

off dust and residue, if the cloth is wet , do not use inflammable liquid to contact the inner circuit to avoid fire or electronic shock. 3 When printing finished, clean the residue in nozzle and extruder, to avoid nozzle choking for next printing.

4 Recommended temperature for working environment is 5  $\!$  C-35  $\!$  C. Please do not

A1: The nozzle is too far away from the bed, the proper distance between the nozzle

A1: Check the filament feeder. If it's external gearfeeder, then to observe whether gear rotates or not. If it's built-in stepper motor feeder, then to observe if the motor

Heat the nozzle to 230 C for PLA, push the filament gently, if there is still no filament come out, then need to disassemble the nozzle, clean or replace it.

A4, Check if nozzle is too close to platform, if so, the filament can not come out, so adjust the distance between nozzle and platform with a piece of A4 paper.

A1, The model did not slice properly, need to re-slice or change the model position

A2,The model file problem, if the model is still misplaced after re-slicing, it's the

First, make sure you have not touched the nozzle when the machine is printing. Second, if there is filament residue on the top layer, the residue area will become

Check if large power electrical equipment is working while the machine is printing, dislocation happens when some equipment turns off such as air conditioner, if so, you need to connect a voltage stabilizer to the printer power supply. Otherwise,

A5, If the above solution can not solve the misplace problem, the dislocation mostly happen at the same height for various models, then need to change the mother

air the machine body with a fan when the printer is working . 5 Recommended humidity for the working environment is 30%-90%.

Q1: Why is the printing model not adhesive to the printing bed?

and bed is the thickness of a piece of A4 paper.

A3: Check if the nozzle is blocked.

Q3. The problem of print model misplaced

A3, the nozzle is forced to stop printing Path:

to generate new Gcode file.

original file problem.

board.

Q2: Why the filament do not come out from the nozzle?

1 Do not use the methods that are not mentioned in this manual to disassemble or modify this machine, to avoid damage to this printer or may cause other serious

2 When the power is off, regularly clean the machine with a piece of cloth to wipe

larger gradually, when it's accumulate to a certain amount and become stiffer enough, the nozzle will be forced to move abnormally. A4, Power supply is not stable

the diameter should be 1.75, but for 3mm, the diameter should be 2.85 or 2.95. A2, Poor surface after removing the support for FDM technology. A2.1, The support density should be as lower as possible, 10% is proper, it's easy to remove. A2.2, Trim the model with a grinding tool, rub gently with a towel and dip a little acetone, make sure to ware gloves before hand, and do not wipe too long to caused

A3.1, The first layer is not formed, or the models are without edges or corners if

A3.2, The nozzle will scratch the platform and no filament come out of the nozzle if

With the maturity of 3d printing, various of filaments are available on the market,

distance is too close, the proper distance is the thickness of an A4 paper.

but the compatibility for filament and printers are particularly important.

A1.2, The filament flow is too large, there is filament flow setting in slice software, A1.3, Filament diameter setting problem, it's in slice software, the default settings are different, there are both 1.75mm and 3mm filament on the market, for 1.75mm,

EasyThread (1)

www.easythreed.com

SAFETY WARNINGS AND GUIDELINES Before installing and using this machine, make sure to read the following contents. Please do not use this machine with the methods not described in this user manual. 1. Take care to avoid touching hot parts, including heat blocks, extruder nozzle, filament and the heated print platform. 2. Keep the machine and all accessories out of reach of children. 3. Please use the power cord supplied with this machine. 4. This machine applies to 110 - 240V power supply. 5. Do not pull or twist the black cable at any time. 6. Do not reach inside the machine during operation

machine, please unplug it from the power outlet and allow it to fully dry.

power outlet immediately to stop use. INTRODUCTION Thanks for purchasing EasyThreed NANO 3D printer. It's a 3D printer

10. Do not expose the machine to water or moisture. If moisture does get in the

11. If the machine discharges smoke when printing, please unplug it from the

machine for beginners. Enjoy the happiness of creation.

EN

PACKAGE CONTENT



**Building Size** 

File Format

Power Input

EN

Compatible Systems

Working Temperature

EN

print button



CURA slicer, we supply teach manual )

G-code file.

card to printer, then create the selected model.

Z axis will go up 1cm (when the machine stopped printing, press 🌘 for 3 seconds then release, every time the nozzle will go up 1cm, users can decide the height). 2. Print ed (

(2) Turn the gear to "FEED", the indicator light in front will flash rapidly, and the nozzle is heating (about one minute). When the filament come out of the nozzle evenly, the feeding is successful,

Precaution: Make sure the distance between the nozzle and printing bed is 3cm at least. If no enough space, press the button ( ) for 3 seconds then release hand,

-Retract

and then turn the gear back to the "PRINT POSITION". Feeding finished.

Click ( button, and the button light flashes regularly, printing starts Please be patient. It will take a few minutes for the nozzle to warm up (the Printer

will choose the latest G-code file to print automatically).

release, the machine will stop printing, then printing cancelled.

PRINT POSITION

Turn the gear to "RETRACT", the indicator light in front will flash rapidly, the nozzle is heating (about one minute), the filament will automatically withdraw from the nozzle, and the return is successful. Pull filament out of the print head, and then turn the gear back to the "PRINT POSITION". filament unload completed. After print, remove the platform, and easy to take off the object.

5. Unload Filament, Retract

time, then need to unload the filament,

Insert the TF card with gcode file inside

A Safety Warning

MAINTENANCE

accident.

FAQ

is working with a little sound. Otherwise, check if filament feeder is connected to it's main board well. A2: Check temperature. Printing nozzle temperature of PLA material range s from 180-230 C.

observe if the nozzle is blocked at a certain position, if so, the power supply on X,Y,Z axles are not even, then need to adjust the X,Y, Z electric current on the main board.

change the default value 100% to be 80%.

A3, The inappropriate distance between the platform and nozzle.

the appearance effected or dimension changed.

A4, The inappropriate printing filament

distance is too large.

Q4, Why the printing accuracy is quite different from the real model A1, There is a lot of filament piled up on the model surface A1.1, Nozzle temperature is too high, filament melt too fast and caused overflowing.