Einstart 3D Printer User Manual

V2.1

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DISCLAIMER

This user manual is an instruction for installation, operation, and maintenance, but not product warranty. All efforts have been made to ensure the accuracy and completeness of the information in this manual. However, Shining3D Tech Co., Ltd. accepts no responsibility for any errors or omissions contained in the documentation and reserves the right to explain and revise the publishing and fault of this manual. The information in this manual is subject to change without notice.

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1. Introduction

1.1. How to use this manual

This User Manual is divided into five sections which covers the Introduction, Overview, Installation, Operation, and Troubleshooting. Please study this manual carefully before installation, and use the printer according to these instructions. Keep this manual handy and refer to it when necessary.

1.2. Precautions

Please read this section carefully before using the printer.

1.2.1. Safety

The printer can only be used with the power adapters supplied by this company, or the product may be damaged, with a risk of fire. To avoid burning, or model deformation, do not touch the model, nozzle, or the platform by hand, or any other part of the body, while the printer is working or immediately after it has finished printing.

Protective glasses should always be worn when removing support material. There is a slight smell from filament material when it is being extruded. The smell is, however, not too unpleasant. Operate in a well ventilated room but draught free, as draught will cause warping.

1.2.2. Protection

•The printer must not be exposed to water or rain to avoid damage.

•Do not shut down the printer or pull out the USB cable when loading a digital model or the model data may be lost.

•The printer is designed to work properly at an ambient temperature of between 15°C and 30°C and humidity of between 20% and 50%. Operating outside these limits may result in low quality model.

• Please turn off the printer when SD card needs to be inserted or pulled out.

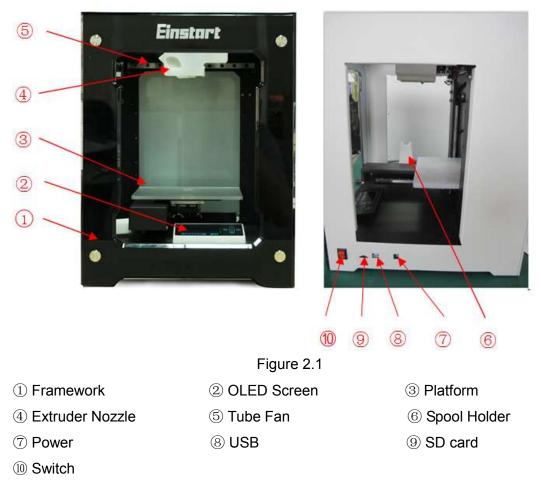
 \bullet We are not responsible for any damage caused by filament material from outside which not authorized by our company.

2. Overview

Thank you for choosing Einstart 3D Printer. It is designed with ultimate portability and simplicity in mind. The system and software allows you to print great models with only a few keystrokes, even if you have never used a 3D printer before. The system uses a nozzle to deposit molten plastic to make a solid object layer by layer, so printed parts are strong and durable.

2.1. Appearance

Figure 2.1 is the front view and side view of printer.



2.2. Axes

In the figure 2.2, the direction of arrow is the forward direction of the axes.



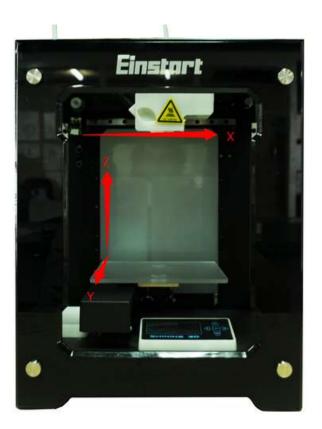


Figure 2.2

3. Installation

3.1. Install printer

The printer was tied up to avoid damage during transportation. Please remove these protective parts before use the printer .

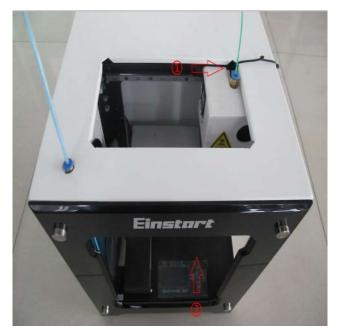


Figure 3.1

- ① Rope
- ② Sponge Mat

3.1.1. Connect power adapter and USB cable

As figure 3.1.1 shown, there are USB connection and power interface on the side of the printer, please connect the printer and computer via a USB cable and connect the power adapter.



Figure 3.1.1

a: connect USB

b: connect Power adapter

3.1.2 Set Platform

As figure 3.1.2 show, placing three outstanding magnetic point into slot to set stably the printing platform.





Figure 3.1.2

3.1.3 Spread glue

First step: spread glue on the build platform. Second step: make the glue joint the platform evenly. Third step: ensure the glue shape is fit properly. Fourth step: place the platform in right place.

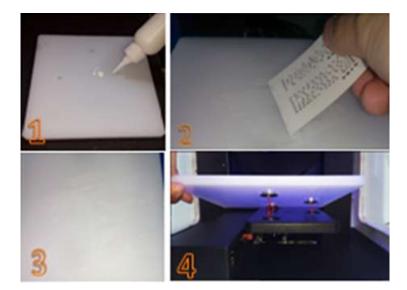


Figure 3.1.3

3.1.4. Install filament

First step: make sure the head of filament is neat.

Second step: set up the filament through the hole inside the printer.

Third step: insert filament tube to the top hole.

Fourth step: put filament on the tray.



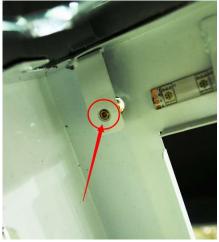


Figure 3.1.4.1

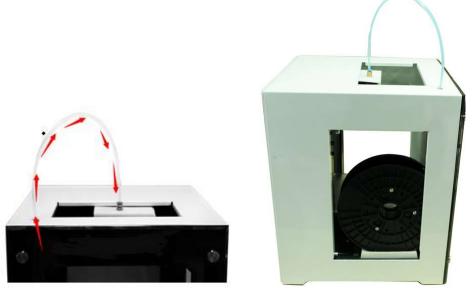


Figure 3.1.4.2

3.1.5 Print the model

- 1) Start up:power on, and press the "button for 3 seconds.
- 2) Menu:press the "button to choose "Fast operation".



Figure 3.1.5.1

3) Load filament: press the "W" button to load filament, put the filament in the hole and wait for the temperature rise.



Figure 3.1.5.2

4) Return: press the "" or "" button to exit when the filament is extruded from the nozzle.



Figure 3.1.5.3





5) Build:get back to the "Fast Operation" and press the " button to choose model.



Figure 3.1.5.5

6) Select:press" ?"" ?" to choose model ,and press" ?" to print the model you want.





Figure 3.1.5.7



Figure 3.1.5.8

8)Resume: used for change filament, see figure 3.1.5.9.



Figure 3.1.5.9

9) "Save-Shut Down": it will save the model file, you can resume printing the model after reboot the machine. "Stop": just cancel the printing.



Figure 3.1.5.10

3.2. Windows OS Software installation

3dStar supports the operating system Win7 32/64bit, Win8.1 and Mac OS X. Please refer to "Read Me file" before setting up the software.There are printing software 3dStar, driver, and STL models in the SD Card.

3.2.1. Software Installation

For install all drivers successfully, please insert SD card into your PC with USB to SD card converter. If you system is windows, find "Windows" folder, open "3dStar" folder, then click xxx_setup.exe file, entering the program installation interface as the picture shown below.



Figure 3.2.1.1

1. Click "next", and select " I Agree" to continue next step.

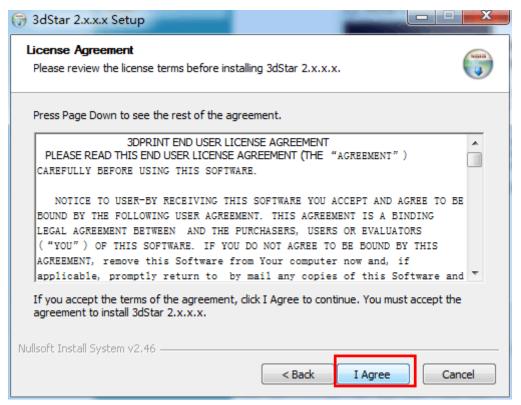


Figure 3.2.1.2

2. Select the installation directory, and Click "Install" to start the SETUP WIZARD

🕞 3dStar 2.x.x.x Setup	
Choose Install Location Choose the folder in which to install 3dStar 2.x.x.x.	
Setup will install 3dStar 2.x.x.x in the following folder. To insta Browse and select another folder. Click Install to start the inst	
Destination Folder C:\Program Files (x86)\3dStar	Browse
Space required: 102.3MB Space available: 5.8GB	
Nullsoft Install System v2.46 —	Install Cancel

Figure 3.2.1.3

🕞 3dStar 2.x.x.x Setup
Installing Please wait while 3dStar 2.x.x.x is being installed.
Extract: ABS_EXTREME.csv
Extract: icuuc52.dll 100% Extract: libEGL.dll 100% Extract: libGLESv2.dll 100% Extract: msvcp100.dll 100% Extract: msvcr100.dll 100% Output folder: C:\Program Files (x86)\3dStar\Plugins\CShiningforge\platforms Extract: qwindows.dll 100% Output folder: C:\Program Files (x86)\3dStar\Plugins\CShiningforge\profiles
Nullsoft Install System v2.46

Figure 3.2.1.4

3. In a while, the following interface will appear, please select ""I have read and accept the license terms ", and click "install".

Microsoft Visual C++ 2010 x86 Redistributable Setup
Welcome to Microsoft Visual C++ 2010 x86 Redistributable Setup Please, accept the license terms to continue.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT VISUAL C++ 2010 RUNTIME LIBRARIES WITH SERVICE PACK 1
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above,
☑ I have read and accept the license terms.
Yes, send information about my setup experiences to Microsoft Corporation.
For more information, read the Data Collection Policy.
Install Cancel

Figure 3.2.1.5

4. Click"Finish" in the pop-up dialog, and the installation is successfully

installed. .

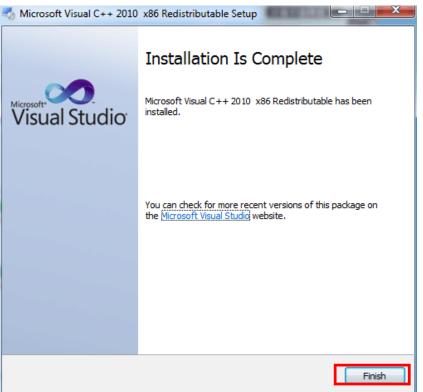


Figure 3.2.1.6

Notice: if either of the below two interface appears, it means that the latest version of Microsoft Visual C++ 2010 x86 Redistributable operation environment has been installed. Click "Cancel" to complete the installation.

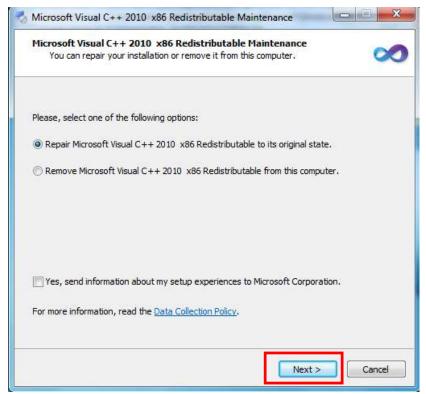
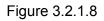


Figure 3.2.1.7

Setur has detected that this co	omputer does not meet the requirements to install this	
software. The following blockin	utable Setup software package.	oft
Please resolve the follow	ing:	
A newer version of Microsoft Visual C	++ 2010 Redistributable has been detected on the mad	chine.
ease, see the <u>Microsoft Visual Studio</u> w	vebsite for more information.	
ease, see the <u>Microsoft Visual Studio</u> w		lose



5.Install the driver of USB to serial port.





Click "Extract", do as the guide shows, see figure 3.2.1.9.



Figure 3.2.1.10

Click "finish" in the follow dialog to exit the guide, see figure 3.2.1.11.

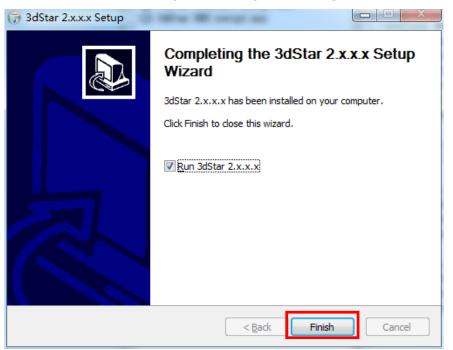


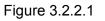
Figure 3.2.1.11

3.2.2 Program registration

Program registration has been done after software setup. If a new key should be registered, do as follows:

1. Open 3dStar folder, double-click "License Install.exe", see figure 3.2.2.1.

License Inst	all		2 ×
SerialNo.		License	Open Add
serialNo	license		
			Install



2. Click open, select key file(*.reg or *.lic)

Organize 🔻 New fo	lder	9== • [1 0
🔆 Favorites	Name	Date modified	Туре
Desktop	🎳 driver	4/13/2015 3:02 PM	File fold
🚺 Downloads	platforms	4/13/2015 3:02 PM	File fold
💹 Recent Places	E Plugins	4/13/2015 3:02 PM	File fold
	🔒 tr	4/13/2015 3:02 PM	File fold
词 Libraries	🔊 3dStar	4/13/2015 3:06 PM	Interne
Documents	es04v02030-2014630i15.lic	4/1/2015 10:40 AM	License
J Music			
Pictures Videos Computer			

Figure 3.2.2.2

3. click"install" to finish registration.

SerialNo.	License	Open Add
serialNo	license	

Figure 3.2.2.3

3.3. Mac OS software installation

If your system is Mac OS, choose "Mac" folder. Before setting up the software, you should refer to Read Me file.

3.3.1.Drive installation

1. Double click "3dStar.dmg", a virtual device is showed on desktop, see figure 3.3.1.1.



Figure 3.3.1.1



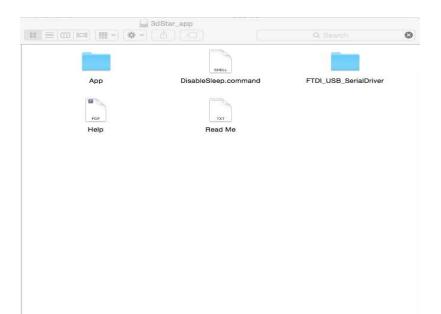


Figure 3.3.1.2

2. Double click "FTDI_USB_Serial Driver", double click the file, see figure 3.3.1.3.

	Welcome to the FTDIUSBSerialDriverInstaller Installer
 Introduction Read Me Destination Select Installation Type Installation Summary 	You will be guided through the steps necessary to install this software.
	Go Back Continu

Figure 3.3.1.3

3. Input user name and password, see figures as follows.

介绍	用户名: use	r name		
请先阅读	密码:			安装。
目的宗卷				
安装类型		取消	安装软件	
安装			-	
摘要				

Figure 3.3.1.4

	Install FTDIUSBSerialDriverInstaller
 Introduction Read Me Destination Select 	Installing FTDIUSBSerialDriverInstaller
 Installation Type Installation Summary 	Optimizing system for installed software
	Go Back Continue

Figure 3.3.1.5

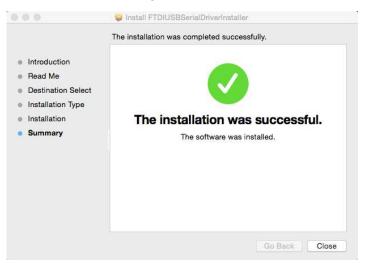


Figure 3.3.1.6

4. Double click script "Disable Sleep.command".



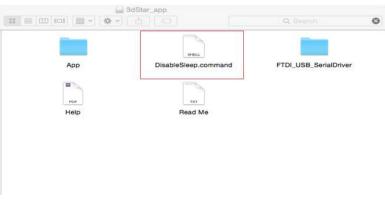


Figure 3.3.1.7

3.3.2. Program registration

1. Go to folder "App", double click "License Install".



Figure 3.3.2.2

2. Click open, go to folder "SD"->"Mac", select key file(*.reg or *.lic), install.



	load file		
🛅 Mac	0	Q Search	
Name		Date Modified	
es04v02030-2	2014630i15.lic	Today, 2:11 PM	
	٥		
		Cancel	Open
	Figure 3.3.2	.3	
0	License Instal	I	
			Оре
rialNo.	License		Add
rialNo 🔺 licens	38		
es04v02 1F19	9F02B34EF414c9121BAE	6DB07E538746662195	61026

1 license installed.

Figure 3.3.2.4

Install

4. Print Steps

1.Connect USB and power cable, and power on the printer.

2.Install the driver and print software according to the wizard, see <u>software setup</u>.(Only need to do once if connect the printer to the same computer.)

3. Open the printer software 3dStar.exe if your system is Windows ,or 3dStarApp if your system is Mac OS.

4. Waiting for auto-connection. If status button is gray, choose serial device which is found from menu "Tools"->"select machine", see figure 4.1 and 4.2 for Windows or figure 4.3 for Mac OS for serial choose.

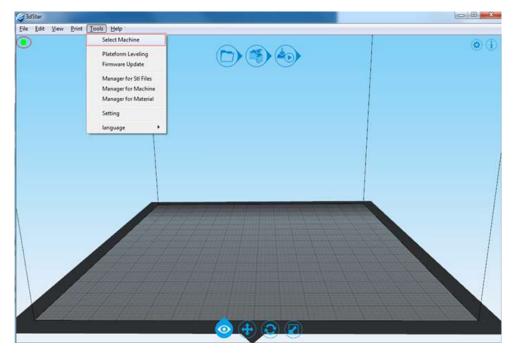


Figure 4.1

portName	serialNo	version	isRegist	state
COM12	es04√02030-201	V-04-107	Registered	ready
•				

Figure 4.2



ortName	serialNo	version	isRegist	*	state	
/dev/cu	es04v432	V-04-107-02	Registered		ready	

Figure 4.3

5. Check the platform level is horizontal or not. Refer to 7.4 for detail; Make sure the nozzle is clean before printing.

6. Open models

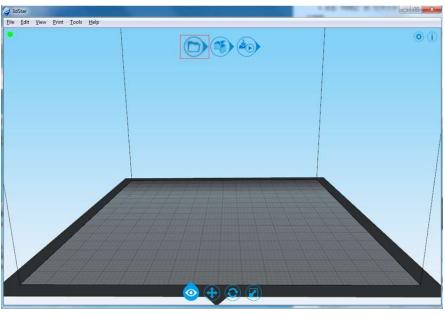
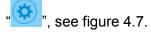


Figure 4.4

7. Make generating path, see figure 4.5. You can change the parameter by clicking





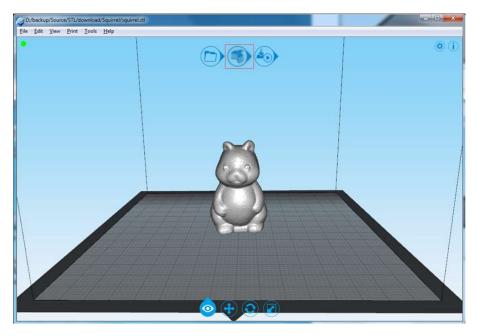


Figure 4.5

🥥 3dStar		
	inset	
		12%
		ancel

Figure 4.6

	Print mode		Version
Į,	🔿 Simple 🔿 Fast 🤅 🔿 Quality 🔵 Extreme		1.2.10
erator	Parameter		
	🔘 Null Support	🧿 Out Support	🔘 Full Support
1	📝 Add Raft	🕅 Thin-wall	
ᅶ	Peel off Factor	2.30	*
tart-s	Extruder Temperature	205.00	A .
	Start Generat	or 🗹 Follo	w Start Build

Figure 4.7

Note: If the model had been generated Path, when it generate Path again, it will cover the last generated Path.

8. After Generating and loading Path are finished, click 🙆 to start to print.



塗: Pause printing

(I): You can see the build status, see figure 4.8.

Figure 4.9 shows the model printed.

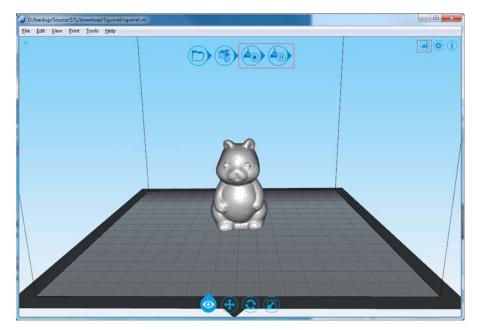


Figure 4.8

EileName: squirrel.g:	sd.
State: waitTemp	
	remanent
00	:59:08
temperature:	25 / 195
temperature:	25 / 195

Figure 4.9





Figure 4.10

5. The Basic Functions of Software

Open the program "3dStar.exe", the software window show as figure 5. Some basic functions are as the follows:

 $\textcircled{0}\$ Menu $\textcircled{0}\$ Short cut guide area $\textcircled{3}\$ Setting and status area $\textcircled{4}\$ Edit area

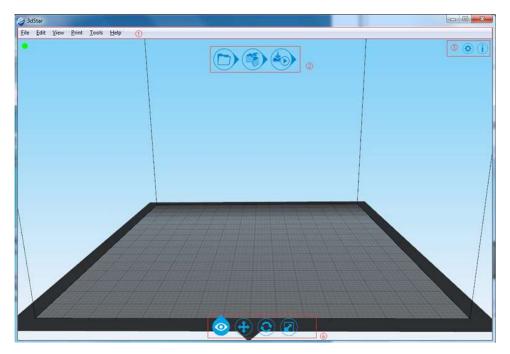


Figure 5



5.1. Menu

All functions can be found in menu.

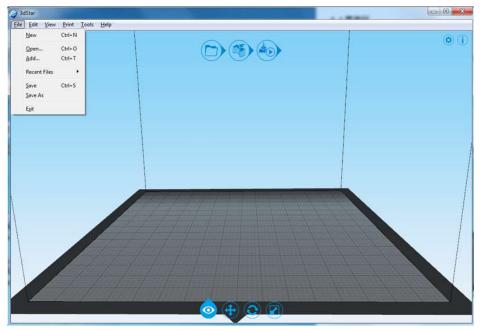


Figure 5.1

5.2. Short guide area

This area contains three button for opening files, path generation and start/stop printing. It's easy to get to print a model.



5.3. Setting and status area

It contains path generation module, device info and control module. You can also see printing status and software info.

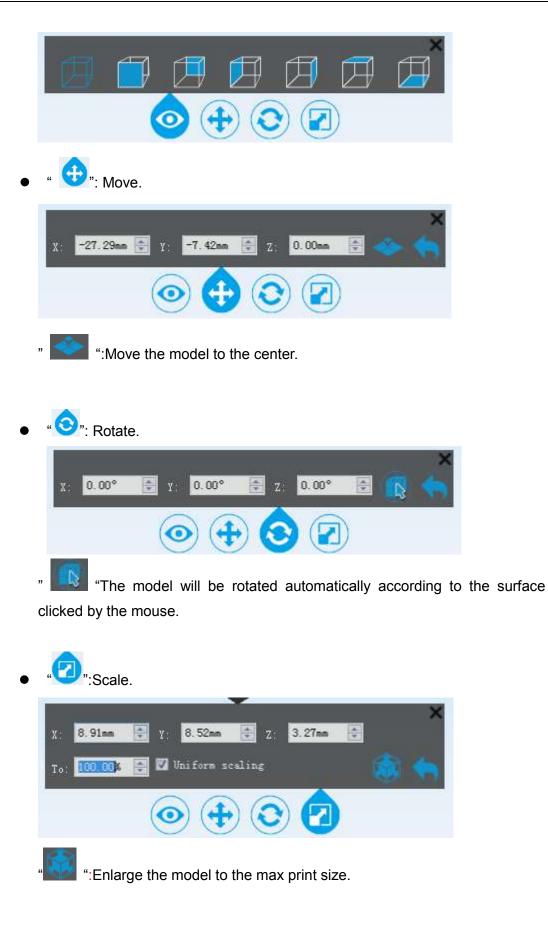


5.4. Edit area

It contains model view, move, rotate and scale function. The model should be

selected before any edit action. You can click **be** to go back to the origin model.

• "**o**": View.



6. Print setting references

6.1. Path generator setting

t,	Print mode Simple Past Quality Extreme			Version 1.2.10
rator	Parameter			
1	Null Support Add Raft	🧿 Out Support 📃 Thin-wall	C) Full Support
£	Peel off Factor	2.30	*	
rt-s	Extruder Temperature	205.00	*	

Figure 6.1

Usually, only "Print mode" needs to be adjusted. It is best to use the defaulted setting to print, or the extruder might be blocked.

There are 5 options to set the print accuracy between 0.1mm to 0.4mm per layer. The finer the layer, the better the quality, the stronger the printed part and the longer it takes to print.

Print mode 🔘 simple \mid 🔘 fast 💿 standard 🔘 quality 🔘 extreme

MODE_Simple:0.4mm layer thickness; MODE_Fast:0.3mm layer thickness; MODE_standard:0.2mm layer thickness; MODE-Quality:0.15mm layer thickness; MODE-Extreme:0.1mm layer thickness;

```
🔘 null support 🛛 💿 out support 👘 🔘 full support
```

Support Mode:

None support: There is no support generated.

Outside support: The support will be generated outside on the raft

Full support: There will be outside and internal support generated.



\uparrow	\uparrow
Dutside	Internal Support
upport	

🗸 Add raft

Select" add raft" will generate a model base which helps to printing stability.

Peel off Factor 2.30

"Peel off Factor" reflects the height between model and raft. If the layer thickness is 0.2mm and the strip rate is 2.3, which means the height between model and raft is 0.46mm. So lower number means the more tighten that model stick to raft.

🔽 Thin-wall

Select "Thin-wall" means only external shell except top surface will be created without any internal support.

Extruder Temperature 200.00

Set the nozzle heating temperature.

📝 Follow Start Build

Select "Follow Start Build" to start printing automatically after generating Path file.

Path view

Path view: You may view the path of model if you click 'Tools'-'Path Viewer'.

6.2. Extruder control

Click menu ->"Tools"->"Manager for material", choose "Material In", then click "next", see figure 6.2.1.

🥥 Material Management Wizard	1	? ×
Action Select the required to	execute the action	
Material In	🖱 Material out	
	Next	Cancel
	Figure 6.2.1	

Temperature Please select their own tempe	the material to set the temperature or set crature	up 🧯
material	PLA 🔻	
temprature	205°C	
Please put the r	material and then click "Next"	
Please put the r	aaterial and then click "Next"	

Figure 6.2.2

When the temperature up to the preset number, the printer will load filament automatically.

Waiting Please waiting		
Current State:	material in	
Current Material:	PLA	
Melt Temperature:	205 °C	
Current Temperature:	192 C	
The rest of the time: 18s.		
In 10mm out 10mm Stop	Sack Fini	sh Cancel

Figure 6.2.3

6.3. Pause/restart printing

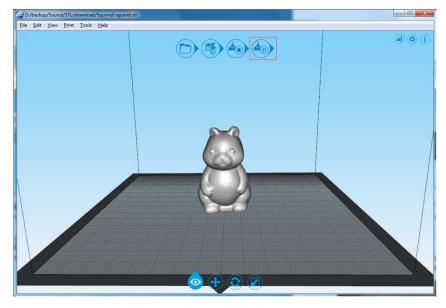


Figure 6.3.1

Click PAUSE, the platform will move to a secure position, and extruder control dialog will pop up. You can operate on Material-IN, Material-Out or Material-Change. Figure 6.3.2 shows the colorful model.



Figure 6.3.2

6.4. Set Z axis Height

Notice: this function can be only operated when the printer is online.

1. Click (1), then choose machine "einstart-s".



Figure 6.4.1

2. Click "Machine Calibration", see figure 6.4.2.

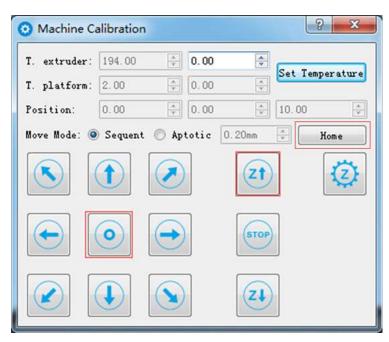


Figure 6.4.2

- 3. Click "Home" to move z axis to home position.
- 4. Click " ito move the extrude nozzle to the platform center.

5. Click" " to lift the platform until it close to the nozzle. Move mode can be chose either Sequent or Aptotic. Please input a proper number in entry field when use Aptotic, avoiding the number too large to hit the platform. This step should be operated carefully. See figure 6.4.3

🗿 Machine Ca	alibration			? ×
T. extruder:	193.00	.00	* *	C.t. T
T. platform:	2.00	▲ ▼ 0.00	* *	Set Temperature
Position:	0.00	▲ ▼ 0.00	* *	10.00
Move Mode: 🔘	Sequent	Aptotic	0.20mm	
			Zt	\bigcirc
\bigcirc		\bigcirc	STOP	
	€		ZĮ	

Figure 6.4.3

6. When the distance between the nozzle and platform adjust properly (about 0.2mm),



click "²" to set the offset, see figure 6.4.4.You can also go back to "setting" to get the offset and apply, see figure 6.4.5. Make a note that the value may be negative.

😟 Machine Ca	alibration		? ×
T. extruder:	22.00	▲ 0.00	Set Temperature
T. platform:	2.00	≜ ▼ 0.00	
Position:	158.34	▲ ▼ 0.20	-0.32 ×
Move Mode: 🧕	Sequent	🔘 Aptotic	0.20mm
			Zt (2)
	•	\bigcirc	STOP
	J		Zł

Figure 6.4.4

		Build Size	160.00mm	162, 35mm
Generator Port No. : COM3 Version No. : V-04-108	einstart-s	State :	ready	Machine Calibration
Generator Port No. : COM3	나	Serial No. :	es04v02030-2014649i24	Manager for Machine
¥	8	Version No. :	V-04-108	
Machine lype : einstart-s	Generator	Port No. :	COM3	
	*	Machine Type :	einstart-s	

Figure 6.4.5

TIP :You may need to set Z height when models are not adhering to the platform properly or are distorted.



6.5. Level platform

Before the operation, you should know the ways to fix the print platform and adjust the distance between platform and nozzle well. Figure 6.5.1 shows the platform set.

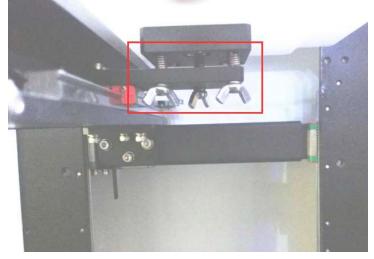


Figure 6.5.1

① Using 3 screws and 3 pressure springs to fix the print platform. Shown as the figure 6.5.2.

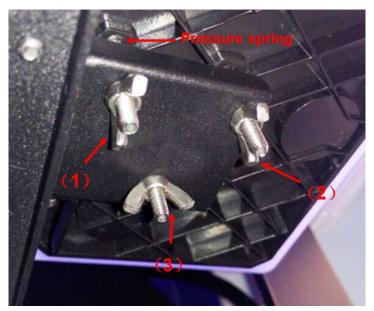


Figure 6.5.2

② The platform will move down if tighten the screws; The platform will move up when loosen the screws. Shown as Figure 6.5.3.

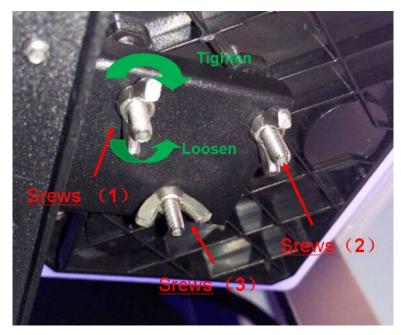


Figure 6.5.3

③ Set the nozzle temperature and platform temperature in the "Tools"->"Manager Calibration", then click "Set Temperature" to start heating. Set the nozzle temperature as 180.0~200.0°C(PLA). If there is material on the print head, please clean it at first.

🗿 Machine C	alibration		? ×
T. extruder:	23.00	¢. 00	
T. platform:	2.00	▲ 0.00	Set Temperature
Position:	158.34	<u>▲</u> 0.20	-0.32
Move Mode: 🧕) Sequent	🔘 Aptotic	0.20mm 🗼 Home
	•	\bigcirc	STOP
	€		Zł

Figure 6.5.4

④ Please set the temperature to be "0" after cleaning the nozzle, and make sure the rest filament does not affect on adjusting leveling.

😟 Machine Ca	alibration			? X
T. extruder:	23.00	. 00	<u>.</u> 	Set Temperature
T. platform:	2.00	▲ ▼ 0.00	×	Set Temperature
Position:	158.34	÷ 0.20	*	-0.32
Move Mode: 🧕) Sequent	🔘 Aptotic	0.20mm	🚊 Home
			Zt	2
	•		STOP	
			ZĮ	

Figure 6.5.5

(bottom left" corner) which corresponds to screw "(a)"

⑥ Click " ⁽²¹⁾"from "platform Leveling" dialog box to rise the platform to highest point. If platform is near nozzle, please adjust a little from "Control Panel". If the platform is far from nozzle, don't need to adjust, you can set the Z axis height after the platform leveling.

⑦ Click " Platform Leveling" dialog box and move the platform to the corner ("bottom right "corner) which corresponds to screw "(b)". Then compare the height of "bottom left" corner (the height between nozzle and worktable, similarly hereinafter), and adjust screw "(b)" to make sure the height is the same as " bottom left corner".

Click " and " and " to check the height difference and adjust to the same height as nozzle. Don't move this two screws any more after operation finished.

⑧ Click " from "platform Leveling" dialog box and move the platform to the "center of Y axis" position and check the height to adjust screw "(c)" to make sure the

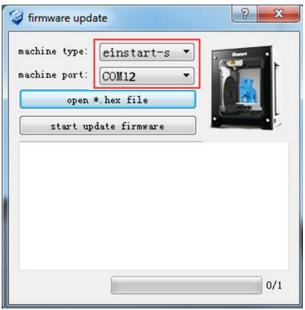
height is the same as we did in last step. Click " and " " to check the height difference and adjust screw "(c)" to the same height as nozzle height(during the adjusting, maybe there is some space between worktable and nozzle, and it can be

adjusted a little the height of worktable and nozzle using "Control Panel").

③ Click "Selection of the platform is level or not. If not, please do from step 3.

6.6.Firmware Update

1. Click "Tools"->"Firmware Update", see figure 6.6.1.





2. Select serial device, see figure 6.6.2 for Windows and figure 6.6.3 for Mac.

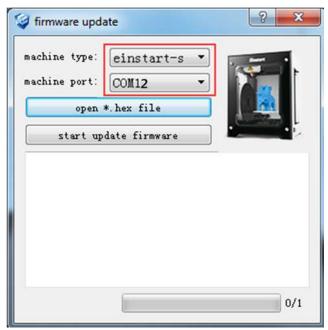
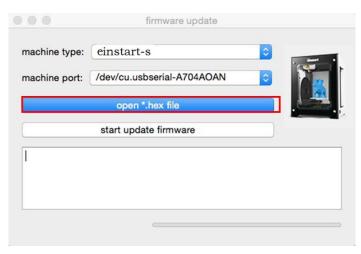


Figure 6.6.2





3. Click "open *.hex file", choose hex file.

Organize 👻 New fold	er				(jes	- 🗆	- 6
🛊 Favorites 🔺	Name	Date modified	Туре	Size			
E Desktop	🎍 driver	4/13/2015 3:02 PM	File folder				
🚺 Downloads) platforms	4/13/2015 3:02 PM	File folder				
Secent Places	Plugins	4/13/2015 3:02 PM	File folder				
	🎴 tr	4/13/2015 3:02 PM	File folder				
Elibraries	adStar	4/13/2015 3:06 PM	Internet Shortcut	1 KB			
Documents Documents Music Pictures	V-04-107-02.hex	3/31/2015 3:29 PM	HEX File	243 KB	10		
Documents Music Pictures Videos	And a second sec				10		
Documents Music Pictures Videos Computer Local Disk (C:)	And a second sec				10		

Figure 6.6.4

4. Click "start update firmware", follow the guide to finish.

machine type: einstart-s 🔹	
machine port: COM12 -	
open *. hex file	<u> </u>
start update firmware	
15:52:31: V-04-107-02.hex loaded!	^
15:53:01: waiting	
15:53:02: 3	
15:53:03: 2	_
15:53:04: 1	

Figure 6.6.5

7. Maintenance

7.1. Changing the Material

Loading, withdraw and change the filament by "Tools"->"Manager for Material" Note: the nozzle and print head is quite hot, so please wear the gloves during the operation.

7.2. Cleaning the Nozzle

After being used for several times, the nozzle will be covered with a layer of oxide material. When printing, the oxide filament may be melted and fall, and cause the model surface to change the color, so you need to clean the nozzle regularly.

At first, preheat the nozzle and set the temperature as 240° C (ABS), 195° C(PLA), then wait it heat up. Then use the heat-stable material such as pure cotton cloth or wadding to clean the nozzle.

7.3. Accessories

You can print the all plastic accessories of the printer by yourself. Because there are some 3D model in the file "3DModel", containing tray holder, tube mounting bracket, Extruder guard and so on. If these parts are damaged, you can print them by yourself.

7.4. Packing list

3D printer mainframe	1 set	
Power supply and cable (out24V/3.75A)	1 piece	
USB cable	1 piece	Ò
Filament tube	1 piece	
Filament	1 spool	
Hex wrench	1 set	15
Cutter	1 piece	して
Spatula	1 piece	
Tweezer	1 piece	



Pen knives	1 piece	11
SD card	1 piece	
SD card reader	1 piece	H
Glue	1 bottle	

7.5. Specification

Print Envelope	160*160*160mm
Layer thickness	0.1, 0.15,0.2, 0.3, 0.4mm
Nozzle diameter	0.4mm
Move speed	60mm/s
Vertical print speed	about 30cm³/hour
Positional accuracy	±0.1mm
Consumable Materials	PLA
Connectivity	USB, SD card
Nozzle	1

8 FAQ

8.1. The filament is blocked

Phenomenon: Make a sound when printing or load filament.

Solution: At first, unload filament and shear it evenly .If do this can't solve the problem. (Refer to the video or document instruction named"Deal with the blocked filament".)

Reason: Poor quality filament, or forget change filament before it exhausted.

8.2. The platform is not plain

Phenomenon: (1)The first layer of model raft is not plain.

- (2) The platform base is not plain. There are friction and white powder on Y axis which is cause by the friction between inclined platform and Y axis
- Solution: Use "3dStar" software to adjust platform and reset the height of Z axis.(Refer to user manual page 50-52).
- Reason: Long time use may cause the screws on platform base is loosen. It is better to adjust the platform in every 2-3 weeks.

8.3. Model can't adhere to platform.

Phenomenon: The model edge warp or totally out of the platform.

Solution: Put glue evenly on the platform, reduce strip rate or

raise nozzle temperature when generate print path.

Strip rate: 2.6

Strip rate range from 1.8 to 2.6, lower rate number be set, more tight become.

Nozzle temp:	195	5° 🊔
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Nozzle temperature range from 195° C to 230° C, higher temperature, more tight become.

Reason: (1) New platform is too smooth to adhere the model;

(2)The model is too big;

(3)It is also relevant with the shrink rate of filament.

8.4. Nozzle is surrounded by filament

Phenomenon: The filament is clump up around the nozzle

Solution: Take off the extrude cover and press the button of load filament to heat the printer head. Remove the cooling protective cover when the filament is soften. At last, clean filament by tweezers (Please refer to the video or document instruction named"Clean nozzle".)

Reason: The filament is not adhered on the model, but turn round the nozzle.

8.5. 3dStar software can't connect to 3D printer or control it.

Phenomenon: It can't find serial NO. in 3dStar software.

Solution: Re-install the drive of printer and register the serial NO.

Reason: (1) The drive path didn't install correctly.

(2) Forget register serial NO.

8.6. 3D printer can't read the data in SD card.

Phenomenon: The 3d printer screen show " no SD card".

Solution: (1) Use English and Arabic numerals name the .gsd file.

(2) Pull out or plug in SD card when the printer power off.

Reason: (1) Einstart DP 3D printer can't read the .gsd file named by Chinese word,and it only show 6 characters add number if the name above 8 characters.

(2) Pull out or plug in SD card when the power on will cause the 3d printer can't identify the SD card.

8.7. The extruder is blocked or forming cottony filament during printing the model, or the model is dislocated.

Solution: (1) Clean the filament and check whether the nozzle is blocked.

(2) load filament again.

(3)shut down the printer and check whether the X axis and Y axis an move normally.

(4) Print model again to to determine the exact problem.

Reason: (1) the poor quality filament will cause the extruder blocked.

(2)The nozzle run into the model cause the printing dislocated.

(3)The nozzle is blocked.

(4) The temperature sensor is broken.

(5)The cooling fan can't move.

8.8. Limit switch broken

Phenomenon: it starts to make loudknocking noise after open the printer for some springs on limit switch is broken.

Solution: Change limit switch (Refer to the video and document).

Reason: The limit switch was broken by mistake when clean the remaining filament or damaged during transport.

8.9. The wire of power is poor connect

Phenomenon: The light of power adapter isn't work after applied power, or the power is shut down for the plug is touched lightly.

Solution: Try to update firmware again or change power adapter(24V/80W).

Reason: Update firmware failure, or the wire of power is poor connect.

9. Contact Us

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