

Einstart®-C USER MANUAL



SHINING3D®

HANGZHOU SHINING3D TECH CO., LTD.
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Einstart®-C User Manual

1 Summary

1.1 How to use the User Manual

This User Manual is set out to explain the following; Product Introduction, Preparation, How to Use the Printer, Software Operation & Help, 3Dker Platform, Maintenance and FAQ. Please read the manual carefully before use and follow instructions when using the Einstart-C.

1.2 Attention

Please consider the following information before using the printer.

1.2.1 Safety

The printer is only compatible with the power supply offered by Hangzhou Shining 3D Tech Co., Ltd.

Using an alternative power supply may lead to safety risks and/or damage to the printer

The print head reaches temperatures of over 200°C. To minimize potential risk, keep the printer door closed during operation of the printer. It is also advisable to keep the printer door closed to reduce any outside airflow, which can affect print quality.

DO NOT touch the model, print nozzle, print bed and any other part inside the printer until fully cooled to room temperature. Care must be taken during the removal of 3D printed parts.

Although considered safe, the printer sends out small concentrations of vapor during printing therefore good ventilation is recommended.

1.2.2 Protection

Keep the printer away from water as this may damage the printer.

DO NOT cut off power supply or unplug the USB cable during printing as it may cause print failure.

The printer operates at a room temperature of 5°C to 30 °C. Print quality may be affected if the temperature is not in this range.

Shining 3D has no responsibility for any damage caused to the printer through using print material or a power supply not offered by Shining 3D.

1.3 Product Model

Einstart®-C Wifi International

Einstart®-C2 Wifi Domestic

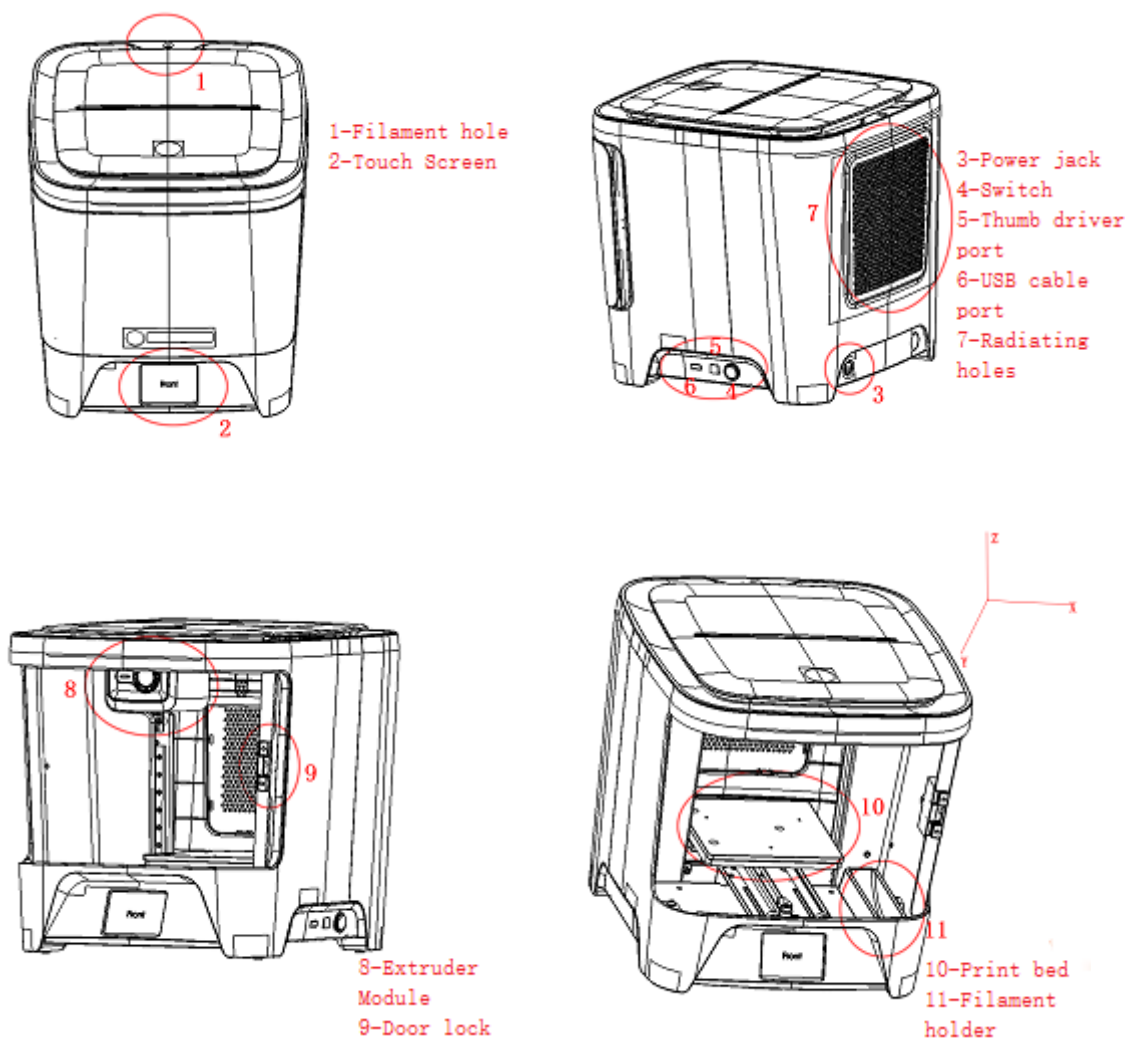
Within this Manual, the model is noted as the Einstart®-C when describing common functions. Any notes applying to the Einstart®-C2 will be made apparent.

2 Product Introduction

The Einstart®-C 3D printer is easy to operate and maintain. Its basic principle is that, upon digital input, plastic is heated, melted and deposited to form the desired 3D model. The design is built up layer upon layer with each successful layer turning solid to give a finished printed model that is sturdy and durable.

2.1 Product Appearance

Einstart®-C



2.2 Device parameters and accessories

See Appendix.

2.3 Sound illustration

The printer uses sound effects to give the user an indication of processes that are occurring e.g. Printer start-up, filament loading etc.

3 Preparation

3.1 Hardware Installation

3.1.1 Remove the package

Unpack the inner and outer packaging and remove the cushioning foam. Use this manual and technical drawings above to learn about accessories and set-up.

3.1.2 Print bed installation

Remove the print bed, open the printer door and fit it to the platform holder. Allow the magnet and positioning block to cooperate and align with one another.

3.1.3 Install the Bowden Tube

Locate the transparent Bowden tube inside the printer and feed it through the central hole at the back of the printer. Then insert it in to the extruder through the blue quick connector. The Bowden tube is easily removed by pressing down on the quick connector and pulling the tube out.

3.1.4 Power Supply Connection

Start by connecting the adaptor to the cable plug. Once completed, insert the cable plug in to the mains socket and connect the adaptor to the jack in the back right of the printer.

3.1.5 Turn On the Printer

Once the power supply is connected, press the switch on the right side of the printer to turn on. The LCD screen display will indicate that the printer is turned on.

3.1.6 Filament Load

Remove the filament packaging and cut the end of the filament at an angle with pliers or scissors to create a pointed tip. Place the filament reel on the filament holder located inside the printer on the right hand side. Then feed the filament through the hole inside the printer and into the Bowden tube until it reaches the extruder. Please refer to chapter 5.4(11, 24, 25) for detailed operation.

Note: For better adhesion of the 3D print to the bed, we recommend a layer of masking tape or glue stick on the print bed prior to print.

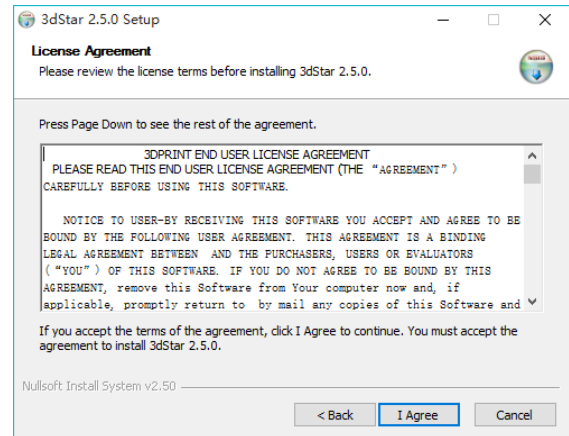
3.2 Software Installation and Serial Number Registration

The slicing software, 3dStar, supports several OS including WIN7 32bit/64bit, WIN8, WIN10 and Mac OS x. The slicing software, serial port driver, serial number and selected model data can be found on the USB drive provided. Please read the “Read Me” file and software user manual carefully before installing the software.

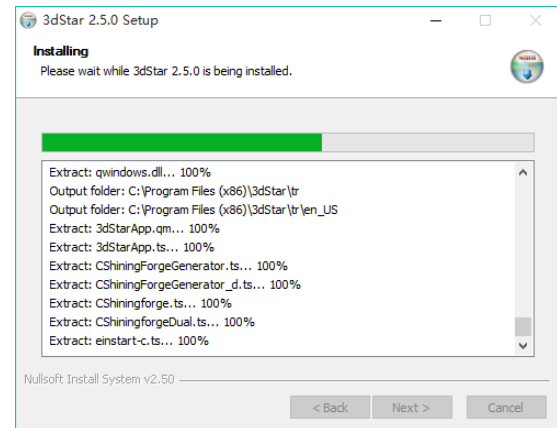
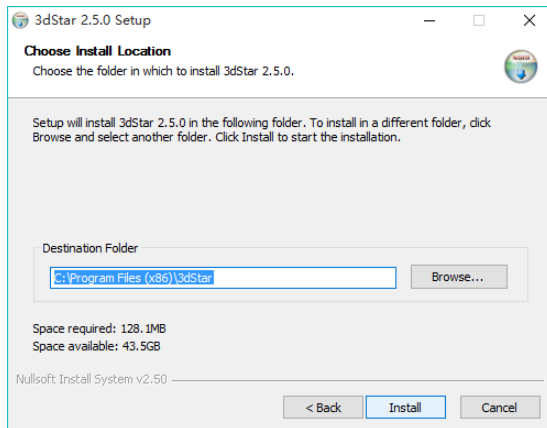
3.2.1 Software Installation and Registration for Windows OS.

3.2.1.1 Steps:

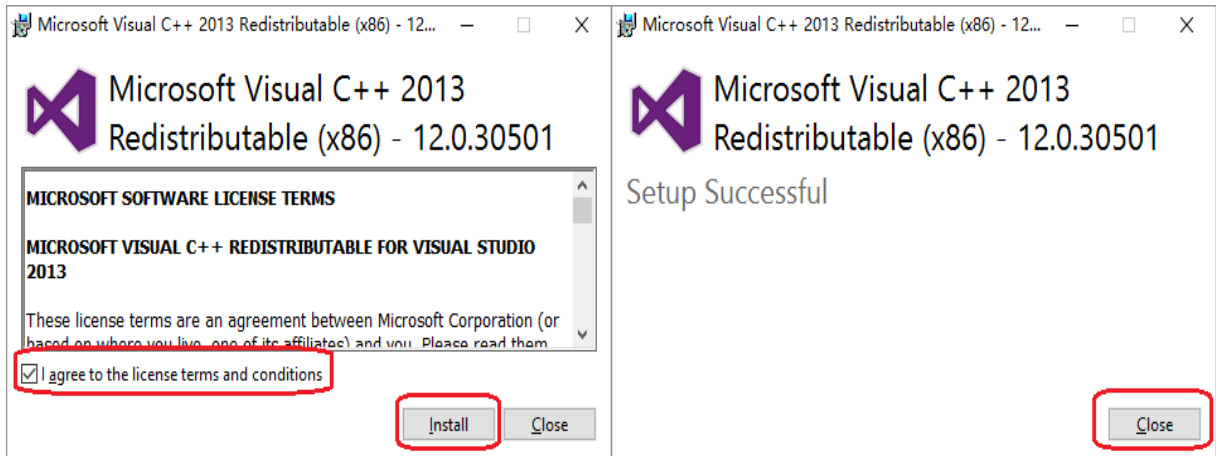
Open the file folder in the USB drive or download the installation software from our website. Find the Setup.exe and run it. Click “Next” to enter the below interface and click “I Agree” after reading and accepting the 3DPRINT END USER LICENSE AGREEMENT.



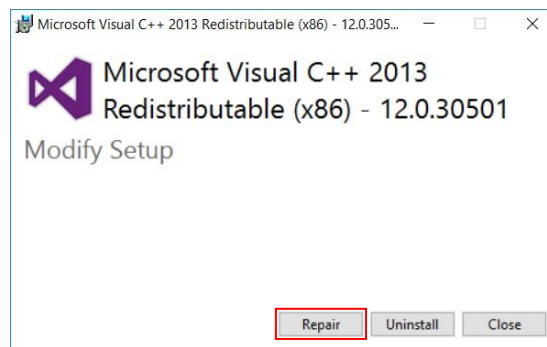
Choose the installation path you want by clicking “Browse” and click “Install”.



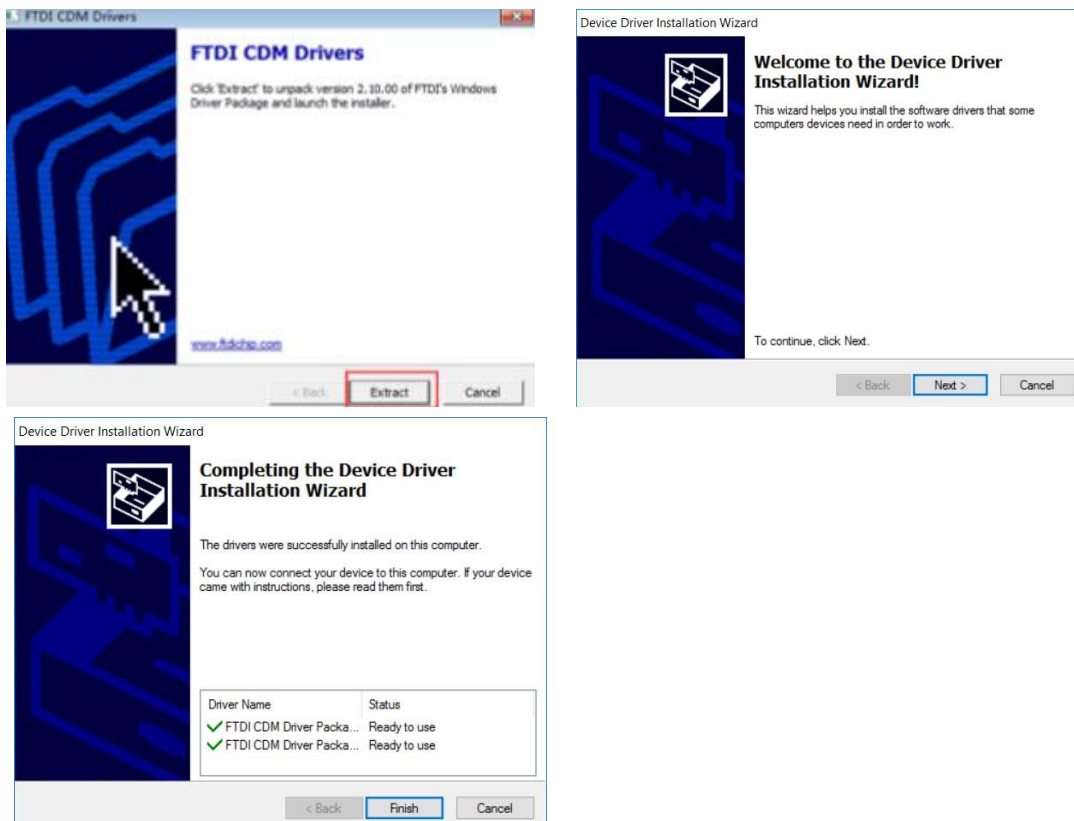
Upon Agreeing the license clause, click “Install” in the popup window. Complete the installation process by Clicking “Finish”.



Note: If you've installed "Microsoft Visual C++ 2013", just click "Repair" as below picture shows.



Install the FTDI CDM Drivers. Click "Extract" and operate according to the guidance given until installation is complete.

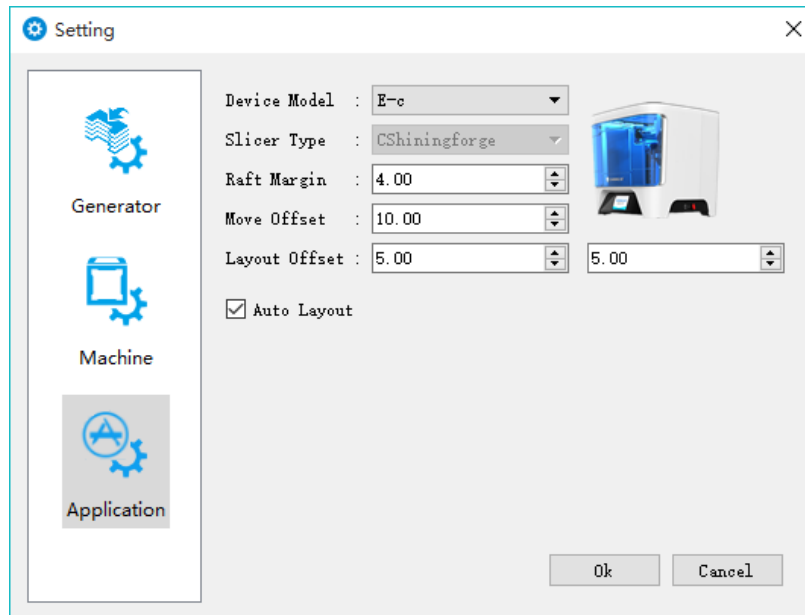


4 Using the Printer

To obtain model data, please refer to chapter 5.1. There are also some 3D files available on the USB drive provided.

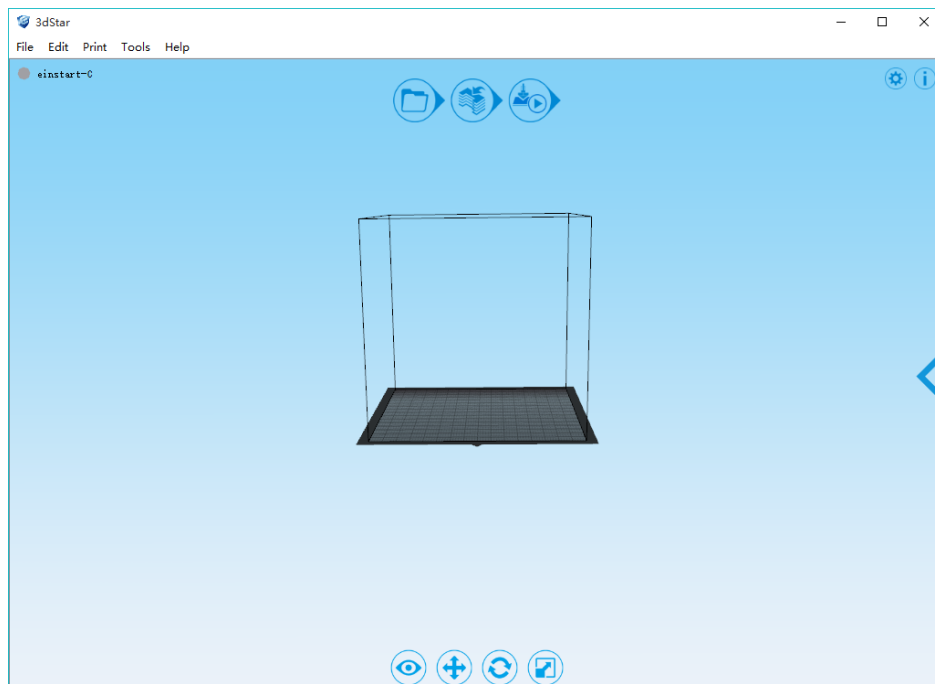
4.1 Slicing

4.1.1 For slicing, open the 3dStar software and choose corresponding device model in “setting”, “Application”. For this printer, you should choose E-c.

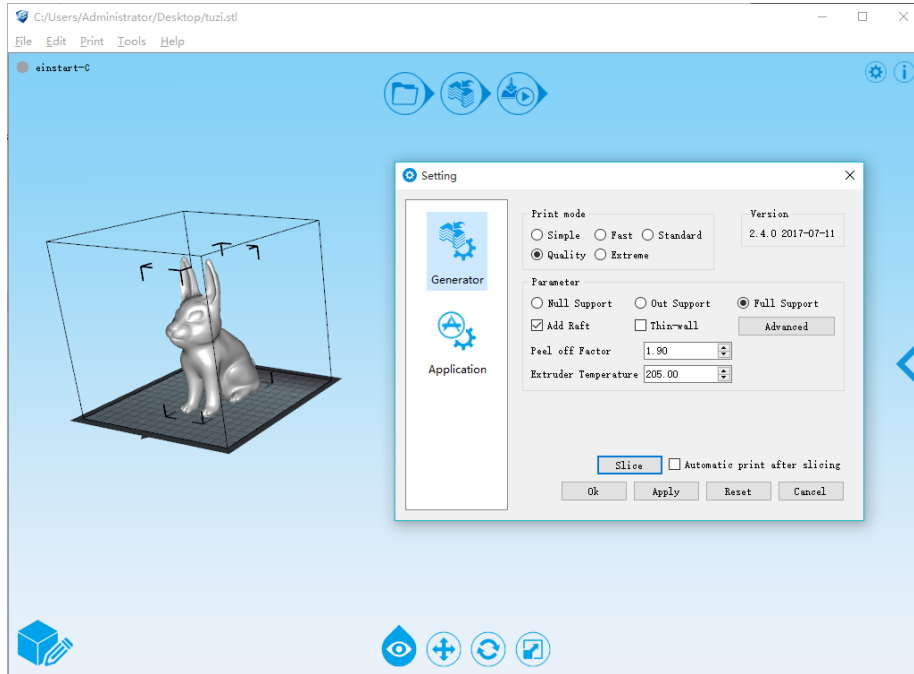


4.1.2 Choose the corresponding machine type. For this printer, you should choose E-C. Click the folder

icon  to open and load an .stl file as the below picture demonstrates.

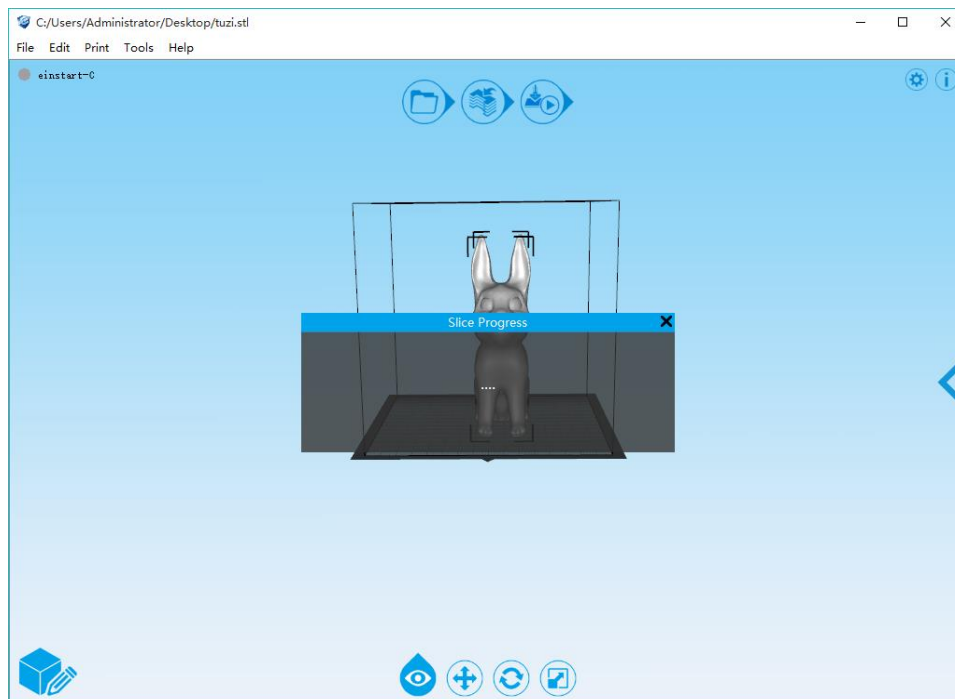


4.1.3 The 3dStar software allows users to view, move, rotate and scale their 3D model according to requirements. To zoom in and out, use the scroll wheel on the mouse. To rotate around your model, left-click and drag. To pan across your model, right-click and drag.



4.1.4 Click the settings icon on the top right of the screen to make any necessary adjustments to your 3D model. See chapter 5.1, 5.2 and 5.3 for detailed information on software and print settings. Click the generator

icon  to generate path in .gsd format once you have confirmed your settings.



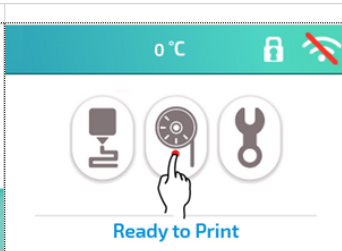
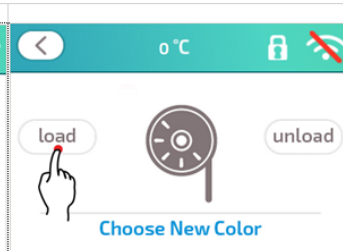
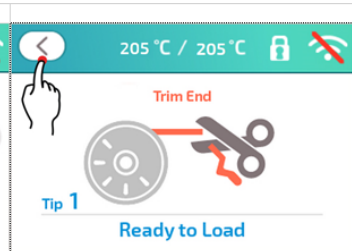
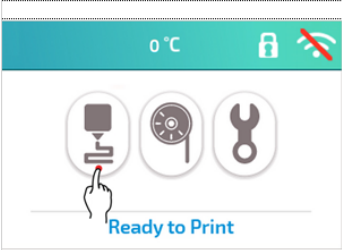
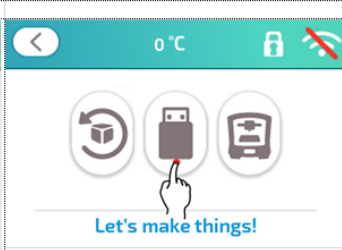
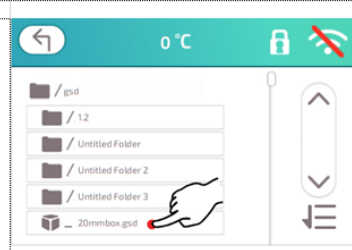
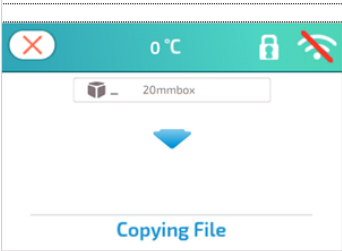
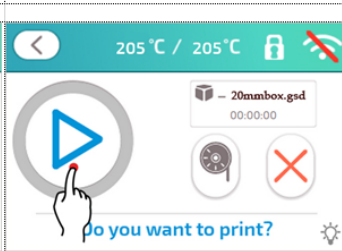
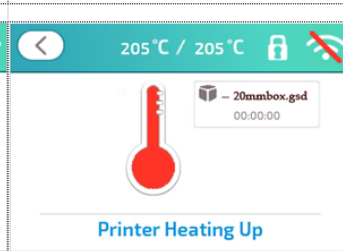
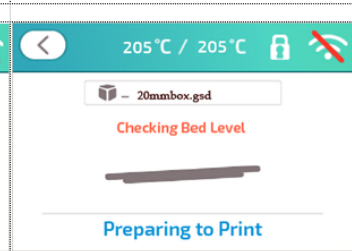
4.1.5 The sliced file is stored in the same folder as the original STL file. Copy the GSD file on to USB flash drive.

Note: When saving your file, the file name should avoid special characters and contain English characters and numbers only.

4.2 Print

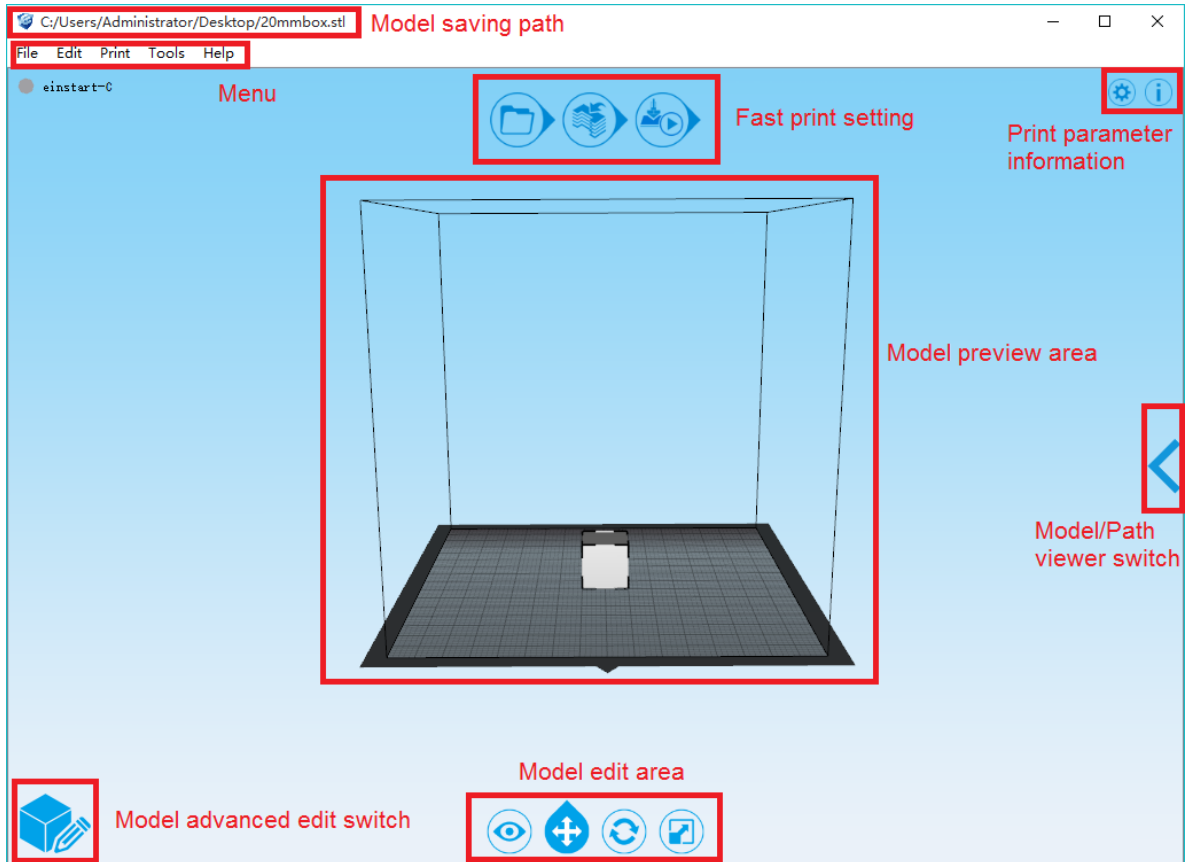
4.2.1 For set-up, refer to section 3.1.

4.2.2 Refer to the below steps for print operation. For further detail on the LCD touch screen, please refer to section 5.4

			
Step1: Turn on the switch on the bottom right of the printer. Click "HOME" icon to enter the home page once the LED and touch screen light up.	Step2: Click this icon to manage filament.	Step3: Click "Load" to heat the nozzle and prepare to load filament.	Step4: Feed filament into the extruder once the target temperature is reached. Wait until the filament is extruded smoothly from the nozzle, then click the icon on the top right of the screen to go back to the home page.
			
Step5: Click this icon to enter the print page.	Step6: Click the USB icon to print from your USB flash drive.	Step7: Plug the USB flash drive, containing gsd file, in the printer.	Step8: Choose the file you want to print.
			
Step9: The printer will copy the file you chose into local storage. After that, you can un-plug the USB flash drive for other usage.	Step10: Once the copy is done you will be prompted to continue. Click this icon to start printing.	Step11: The printer will start to heat up once you start printing. No additional operation needed.	Step12: The printer will check the bed level once the heating is completed. Once leveled, the print will begin. When the print is completed, use the scraper to assist with removal of the piece.

5 Software

5.1 A detailed look at the software interface



Model saving path: After 3dStar loads the model, you can see the model stored location in this area.

Additionally, the sliced data path for printing will be stored in the same location.

Menu: The menu of 3dStar contains File, Edit, View, Print, Tools and Help.

Model preview area: Check the model in this area after loading successfully.

Model edit area: View, move, rotate and scale up/down the model.

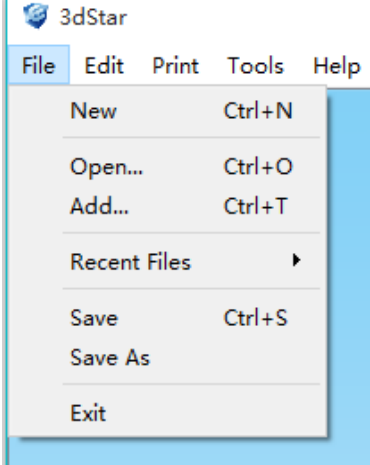
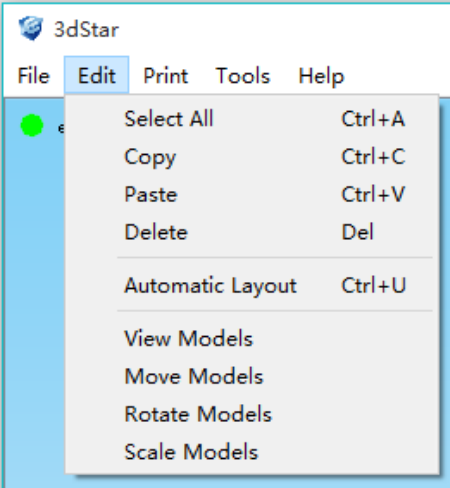
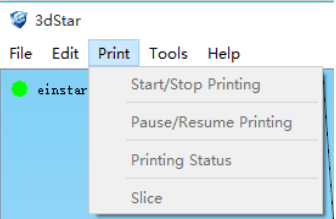
Fast print setting: In 3dStar, users can conveniently load file, generate path (parameters will be the same as your previous print) and print after generating (only when printer is online).

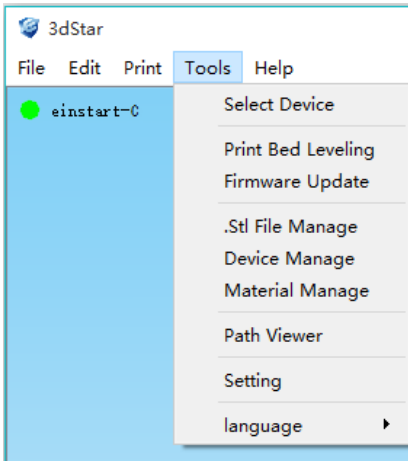
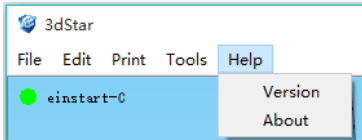
Print parameter information: Check and edit the slicing parameters in detail.

Model advanced edit switch: Allows the user to switch display once the model is loaded successfully. Click to switch to the advanced edit interface.

Model/Path viewer switch: Click the arrow on the right to open and check model and path information.

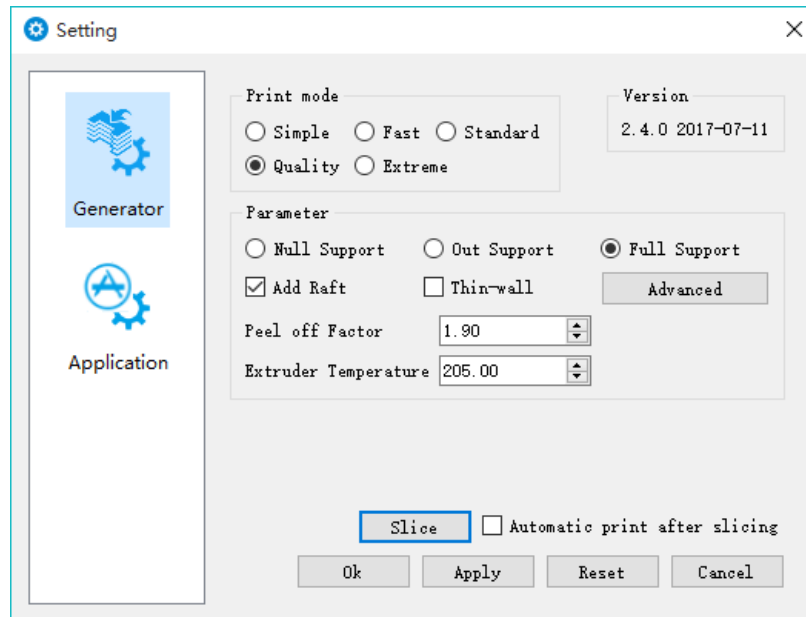
5.2 Software functions

No.	Position in Software	Legend	Submenu	Description
1	Menu-File		New	Clear current model
			Open...	Open local STL file
			Add...	Add new model to current
			Recent Files	Link to recently opened files
			Save	Save current model
			Save As	Save current model as other position
			Exit	Exit 3dStar
2	Menu-Edit		Select All	Select all models
			Copy	Copy selected model
			Paste	Paste copied model
			Delete	Delete selected model
			Layout	Optimal layout for current model
			View	View model from different
			Move	Move model from X,Y, or Z direction
			Rotate	Rotate model around X,Y, or Z axis
3	Menu-Print		Start/Stop Print	Start/Stop print. Print cannot resume if stop
			Pause/Resume Print	Pause or resume printing

			Building Status	Check the status of current print
			Generate Path	Slice current model and generate path
4	Menu-Tool		Select	Select online machine
			Machine Calibration	Calibrate the machine
			Firmware	Detect firmware update
			Manager for STL File	Manage local STL file
			Manager for Machine	Manage machine
			Manager for Material	Manage material
			Path Viewer	View the generated path
			Setting	Settings for generator and machine
			Language	Select language
5	Menu-Help		Version	Check current software
			About	More information

5.3 Advanced Parameters

5.3.1 Path Generator



The use of “basic setting” is normally sufficient. We suggest you generate path with our default parameters since improper changes could lead to print failure or extruder blockage.

5.3.1.1 Print Mode

Simple: 0.4mm layer thickness;

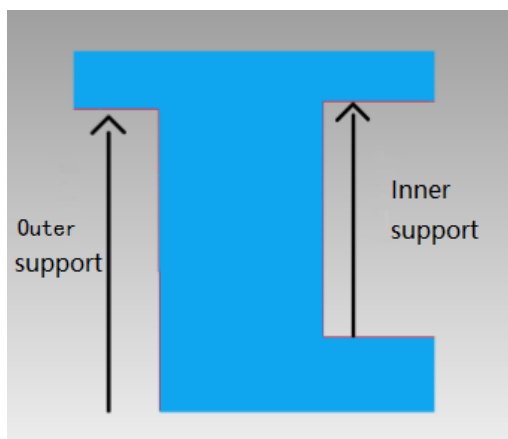
Fast: 0.3mm layer thickness;

Standard: 0.3mm layer thickness;

Quality: 0.15mm layer thickness;

Extreme: 0.1mm layer thickness;

5.3.1.2 Support



Null Support: No support when generating path.

Outer Support: “Outer Support” creates support where the support structure is printed directly on the raft or platform (when printing without raft).

Full Support: Both outer and inner support when generating path. “Inner Support” means support is created on the model surface.

Add Raft: When generating path, the software will generate a raft for your model, which can secure the model effectively and compensate height variance.

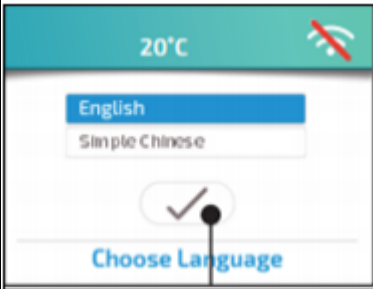
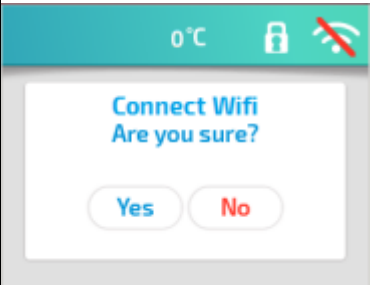
Thin-wall: When generating path, the software will create a shell structure rather than infill. It will also close the bottom of the model but not the top.

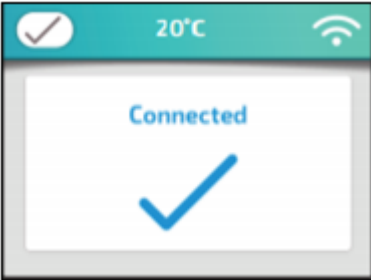
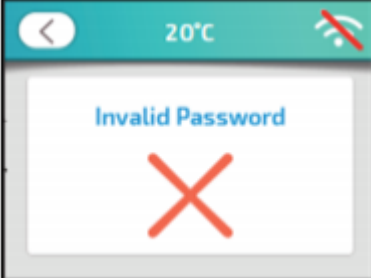
Peel off Factor: Users can adjust the distance between model and raft by changing this factor. It is a ratio related to layer thickness. For example, if layer thickness is 0.2 mm and peel off factor is 2, the distance between the model and raft is 0.4 mm.

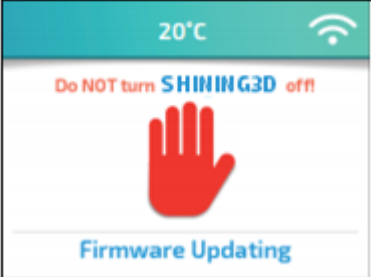
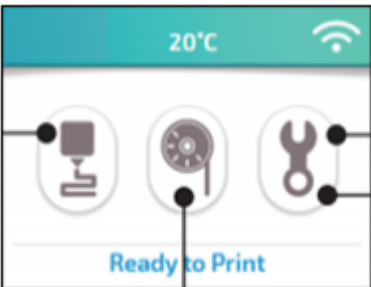
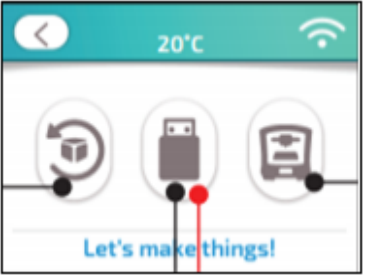
Extruder Temperature: Temperature the nozzle will reach when printing. We suggest you set this value based on the requirement of the material used.

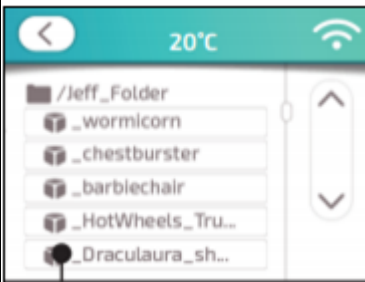
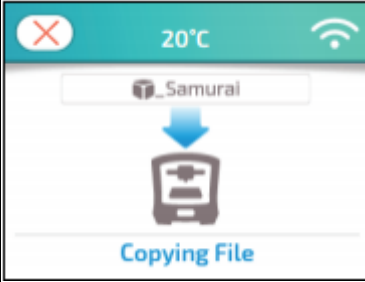
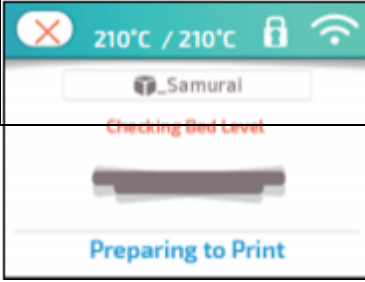
Print once generated: Once the path is generated and the machine is ready, the printer will automatically begin printing.

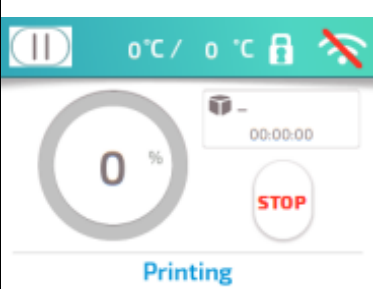
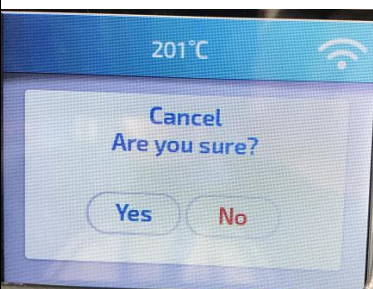
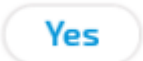
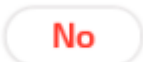
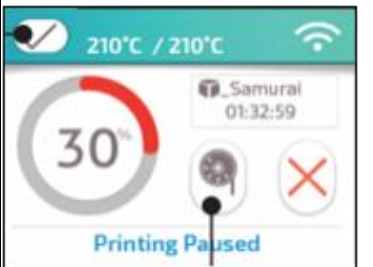
5.4 Introduction of LED Screen Button and Its Logic

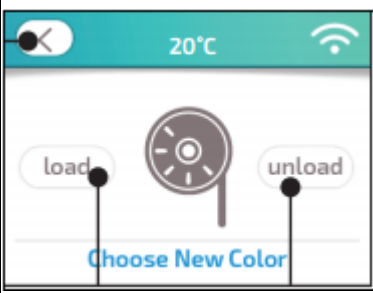
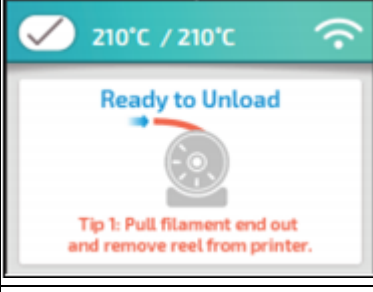
No.	Interface	Pic.	Function	Button function	Logic
1	Choose Language		language selection is required during initial set up.	Language Choosing	Skip to 2
2	WIFI Connection		Connect to WIFI or not.	Yes	Skip to 3
				No	Skip to 11

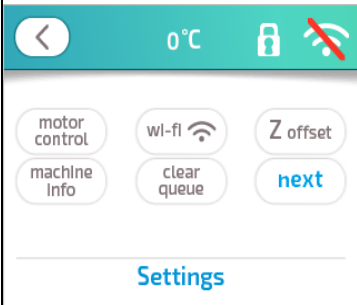
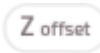
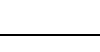
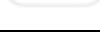
3	WIFI Checking		Searching for available WIFI or trying to connect to the WIFI used previously.	Skip automatically	Skip to 4
4	WIFI List		A list of available WIFI is generated. Scroll using the arrows“^” and “v”.		Refresh the list
					Skip to 11
5	Input WIFI Password		Enter the password using the keyboard.		Skip to 6 or 7
					Skip to 4
6	WIFI Connection succeeds		WIFI is connected successfully.		Skip to 8
7	WIFI Connection fails		WIFI connection has failed.		Skip to 5

8	Firmware updates		The printer is checking that the firmware is up to date.	Skip automatically	Skip to 9
9	Updating page		The printer updates firmware automatically if it detects updates are available. DO NOT turn off the printer during updating! restart will occur automatically if updates are successful.	Skip automatically	Skip to 10
10	Welcome Page		This is displayed once the printer is prepared and ready for use. Click any area on the screen to skip to the home page.	Any area	Skip to 11
11	HOME Page		Home Page. You can select any function button to enter its interface.		Skip to 12
					Skip to 24
					Skip to 29
12	Printing Selection		Select model source for printing.		Skip to 13
					Skip to 14 or 15

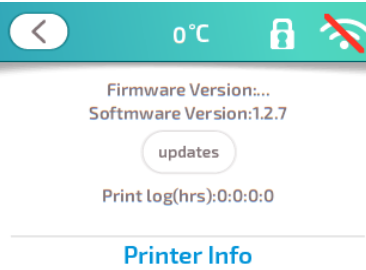
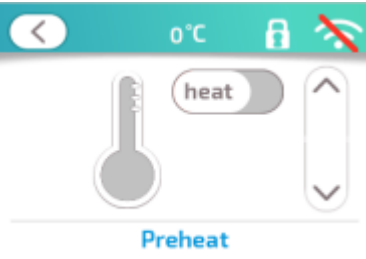
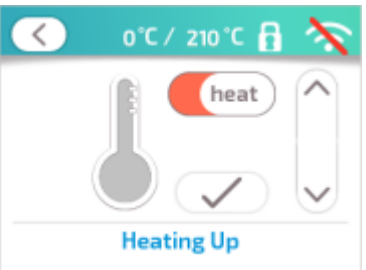
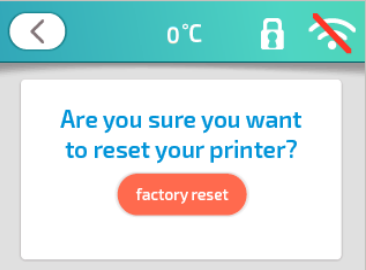
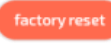
					Local default model
					Skip to 11
13	Printing Confirmation		Select a model file for printing.		Skip to 17 or 18
					Skip to 24
					Skip to 12
14	USB drive file list		When the USB drive is plugged in, this interface will allow you to select a model from the USB drive to print.	Select any model in the list	Skip to 16
					Skip to 12
15	USB undetected		If the USB drive is not plugged in or cannot be detected, this will be displayed.		Skip to 12
16	Copying File		Copying model file to the device.	Finish copying	Skip to 13
					Skip to 14
17	Leveling print bed		After printing has begun, this display can be seen	Skip automatically	Skip to 18 or 19

			during bed level checking.		Skip to 14
18	Printer Heating Up		Displayed during the print head heating process.	Skip automatically	Skip to 20
					Skip to 14
19	Bed Error		If an error occurs during bed auto leveling , this display will be seen.		Skip to 17
22	Printing		Printing in process.		Pause current printing Skip to 23
					Stop current printing Skip to 23
23			Stop current printing confirmation.		Skip to 11
					Skip to 22
24	Printing Paused		Printing Paused display. Various printing processes can be managed at this stage.		Skip to 25
					Skip to 12
					Skip to 22

25	Filament Management		Manage filament, you can select to load or unload filament here.		Skip to 26
					Skip to 26
					Skip to 11
26	Printer Heating Up		This display can be seen during the print head heating process.	Skip automatically	Skip to 27 or 28
					Skip to 25
27	Filament loading		When the print head reaches loading temperature, this display indicates that you can insert filament.		Skip to 25
28	Filament Unloading		When the print head reaches unloading temperature, this display indicates that the Printer is reversing filament.	Skip automatically	Skip to 29
29	Ready to unload		Follow screen prompts for unloading of filament.		Skip to 25
30					Skip to 31
					Skip to 14

	Settings		Select Settings on the HOME page to change various parameters.		Skip to 32
				Skip to 33	
				Skip to 34	
				Skip to 36	
				Skip to 37	
				Currently Nonfictional	
				Mute or not	
				Unlock door	
		  		Currently Nonfictional	
			Skip to last page or 11		
			To next page		
31	Motor Control		Control the axial motor.	XYZ motor control buttons	Control motor
				Skip to 30	
32	Print head Offset		Change the print head offset.		Increase or decrease offset

19

					Skip to 30
33	About Printer		Firmware/software version and total printing time.		Skip to 8
					Skip to 30
34	Preheat A		Allows user to preheat.		Skip to 35
					Skip to 30
35	Preheat B		Preheat temperature setting.		Change target temp
					Save target temp
					Stop preheat
					Skip to 34
36	Factory Reset		Allows user to reset the printer to default settings.		Reset to factory setting
					Skip to 30

37	Touch screen locate		Relocate touch screen area.	Skip automatically	Skip to 10
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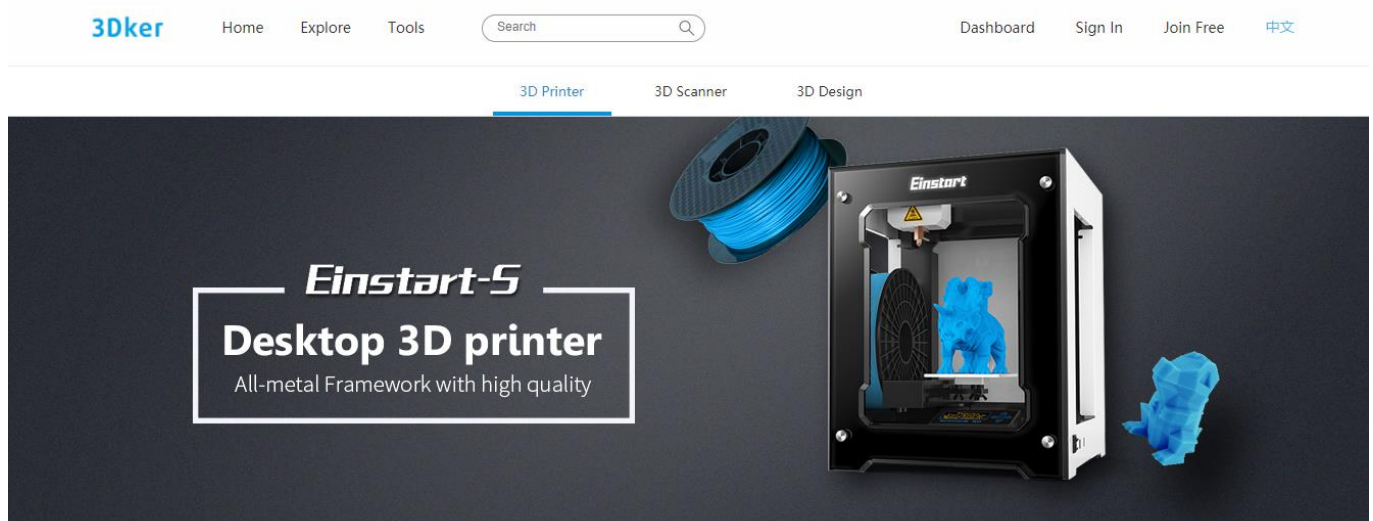
6 3Dker Platform (Website address: <http://www.3dker.com/>)

6.1 Model Downloading

Visit the 3Dker platform where you can find and download 3D model data designed by other users or designers.

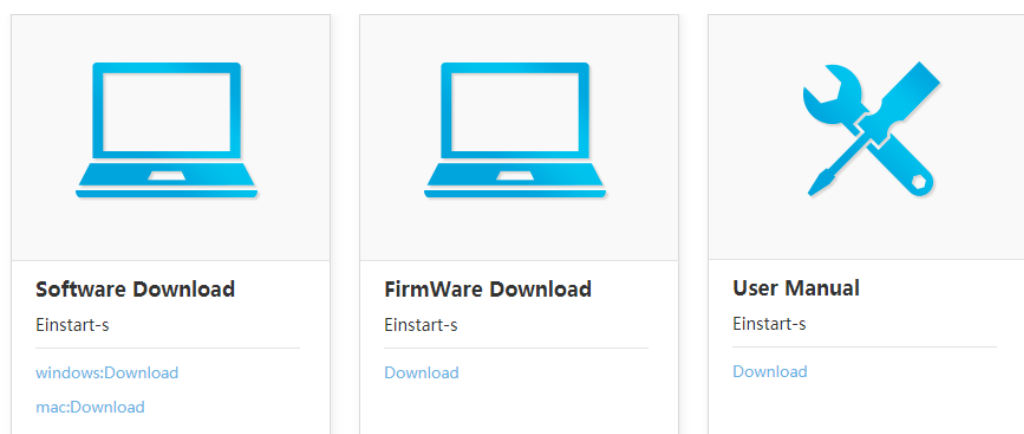
6.2 Software and Firmware Downloading.

Click “Tools” in the top menu to enter downloading page and select “3D printer”.



Scroll down the page and download the newest software, firmware and user manual on the below page.

Download & Service



7 Maintenance

7.1 Printer Working Environment

Make sure the printer is set on a stable flat surface. Do not interfere with moving parts during the printing process.

Please hold the print bed securely when turning the printer off in the occurrence the bed drops with loss of power.

7.2 Clean Up the Printing Environment

Dust may cause jamming on the sliding rail, which in turn may lead to poorer quality printing. We recommend cleaning the Nozzle weekly. Follow instructions on our 3DKer website under “Maintenance”.

7.3 Changing the Filament

Filament should be changed when there is around 20 cm filament left or before using the unload command.

7.4 Loading Filament

Make sure the print head reaches loading temperature before inserting filament. The tip of the filament should be straight and sharp.

7.5 STL File

“3Dstar” slicing software supports STL format only.

7.6 Set the Print Bed

The print bed should be orientated and set correctly.

Make sure the print bed surface is flat and clean.

We recommend carrying out the auto levelling process regularly, particularly when printing often.

7.7 Sliding Rail

Lubricating grease should be add to the sliding rail annually.

7.8 Consumable Parts List

#	Parts photo	Parts name	Normal life cycle
1		Tube	3 months
2		Nozzle	3 months
3		Heat block	3 months

4		Heat rod	3 months
5		Thermistor	3 months

8 FAQ

8.1. The filament is blocked

Problem: A skipping sound is heard during printing or the loading of filament.

Solution: First, unload the filament and ensure the tip is even before reloading. If this does not solve the problem, please take apart the extruder and clean.

8.2. Extruder height adjustment

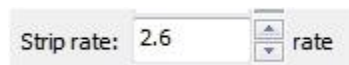
Problem: During printing, either the first layer is not flat and wide but appears as a thin spiraled line or the extruder touches the print bed.

Solution: If the distance between the print bed and head is more than 2mm, the extruder height needs to be adjusted. (Refer to section 5.3.4).

8.3. Model won' t stick to the platform.

Problem: The edges of the model are warped or are becoming unstuck when printing.

Solution: Apply a thin layer of glue stick evenly on the platform. It is also worth considering a reduction in strip rate or an increase in nozzle temperature (+5~10℃).



Strip rate ranges from 1.8 to 2.6, a lower strip rate generally results in better adhesion.



Nozzle temperature ranges from 195℃ to 230℃, a higher temperature generally results in better adhesion.

8.4. Nozzle is surrounded by filament

Problem: The filament has gathered around the nozzle.

Solution: Remove the extruder cover and press the load button to heat the printer head. Remove the cooling protective cover once the filament has softened. Finally, remove the filament using tweezers (Please

refer to the video or document instruction named "Clean nozzle".).

Reason: The filament has failed to stick to the model or platform and as such has gathered round the nozzle.

8.5. 3dStar software cannot connect to the 3D printer.

Problem: Error message indicating lack of connection to the printer or printer not registered.

Solution: Refer to section 6.1.2 and if the problem still exists, please contact support.

8.6. Cannot read files on USB drive

Problem: error message indicating no file in drive or no USB drive found.

Solution: The Einstart®-C is capable of reading .gsd files only, Make sure you have the right file format.

8.7. The extruder is blocked, forming thin strands during printing 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 move normally.
- (4) Attempt to print the model again to determine if there are further problems.

Reason: (1) Poor quality filament may cause the extruder to become blocked.

(2)The nozzle is knocking in to the model causing dislocation

(3)The nozzle is blocked.

(4) The temperature sensor is broken.

(5)The cooling fan is not working.

8.8. Limit switch malfunction

Problem: A loud knocking noise may indicate the limit switch is broken.

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

Reason: The limit switch may have been broken when cleaning residual filament or during transportation of the printer

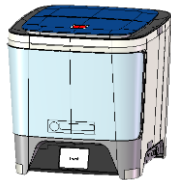
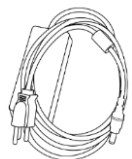
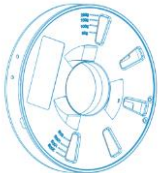
8.9 USB drive cannot be detected.

Problem: USB drive is not detected once plugged in to the printer

Solution: Restart the device or re-insert the USB drive. Make sure you are using a USB drive instead of USB reader + SD card.

Appendix:

1. List of Product and Accessories

Einstart®-C		
Einstart®-C 3d Printer	1 unit	
Power Supply(Output 19V/4.95A)	1 PCS	
USB cable	1 PCS	
Bowden tube	1 PCS	
3D printing Material	2 reels	
Print bed	1 PCS	
USB flash drive (4G)	1 PCS	

Scraper	1 PCS	
User manual	1 PCS	
Handy tool	1 PCS	

2. Parameter of the Printer

Technical Specifications

Model	Einstart®-C
Print Technology	FDM
Layer Resolution(mm)	0.1, 0.15, 0.2, 0.25, 0.4
Footprint(in)	14.5"x15"x15"
Build Size(in)	6"x6"x6"
Single Extruder	Yes
Nozzle Diameter(mm)	0.4
AC Input	100-240V, AC 50-60HZ
Power Supply	19V
Local Flash Storage	4GB
Screen	3.5" Color Touch Screen
Connectivity	Thumb Drive, USB Types A&B, Wi-Fi
Filament	1.75mm PLA
Software	3DStar
LED Lights	Yes
Door Sensor	Yes
Speaker	Yes
Full Enclosure	Yes
Heating Element Cover	Yes
Auto-leveling	Yes
Wi-Fi Connectivity	Yes
Support OS	Mac, Win7 or Above

Notice: More detailed information about the products, please visit our web for inquiry.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

More information please join our WeChat by scanning below QR code



Company

Desktop 3D printer department

3Dker

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