



Catalogue

1. Packing List	1
2. Equipment parameters	2
3. Installation equipment	3
4. Platform Calibration	17
4-1 Platform Calibration	17
4-2 Fill in filament	21
5. Ready to print	22
5-1 Introduction to working mode	22
5-2 Installing Driver software	23
5-3 Install Ultimaker Cura Software	27
5-4 Software Settings	30
5-5 Usage of Ultimaker Cura Software	36
6. Start Printing	38
6-1 Offline printing	38
6-2 Online Printing	40
7. Other Functions	42
7-1 Manual leveling	42
7-2 Automatic Leveling (Optional)	45
7-3 Intelligent filament detection Sensor Module (Optional)	47
7-4 Model Preview	49
7-5 Marlin Operating System	57
8. Troubleshooting	59
9. Cautions	63

1. Packing List

	Wrench and screw bag (1set)	Diagonal pliers (1pcs)
BIQU-B1	TF card and card	Nozzle
(1pcs)	reader (1set)	(2pcs)
	ト	1
Power cable	Rack	BLtouch stand
(lpcs)	(1pcs)	(lpcs)
Data cable	Filament for test	Cable tie
(lpcs)	(45g)	(5pcs)

2. Equipment parameters

The bas	sic parameters
Printer Name	BIQU-B1
Printing Size	235 x 235 x 270mm
Molding Tech	FDM
Nozzle Quantity	1 PCS
Layer Thickness	0.1mm - 0.3mm
Nozzle Diameter	Standard 0.4mm
Printing Accuracy	± 0.05 mm
Filament	PLA
Slicing Format	STL / OBJ/ AMF
Connecting Method	Via data cable / TF card / USB
Slicing Compatible	With Cura / Repetier-Host / Simplify 3D
Rated Voltage	100 - 120V / 200 - 240V 50 / 60 HZ
Output Voltage	24V
Rated Power	270W
Max Temp of Hot Bed	100°C
Max Temp of Nozzle	260°C
OS compatible	with Win 7 / Win 10
Maxium operating speed	180mm/s
Max Printing Speed	100mm/s
Normal Printing Speed	60mm/s
Language Transform	Supported
Resume Printing	With resume printing function
Filament Run Out Detection	With filament run out detection function

3. Installation equipment

Step 1



Connecting the terminal wire to the socket of the hot bed.

Step 2



There are two M5 threaded holes on the end of the 2040 aluminum profile, which is used for mounting the M5 \times 16 hex socket head screws.





- 1.2040 aluminum profile—length 456mm (1pcs)
- 2. M5 \times 16 hexagon round-head screws (2pcs)
- 3. M5 \times 10 hexagon round-head screws (2pcs)
- 4. M4 \times 8 hexagon cup-head screws (4pcs)

Step 3



There is a M4 threaded holes on another 2040 aluminum profile. When installation, users make the threaded hole face the metal sheet part.



- 1. 2040 aluminum profile--length 456mm (1pcs)
- 2. M5 \times 16 hexagon round-head screws (2pcs)
- 3. M5 \times 10 hexagon round-head screws (2pcs)
- 4. M4 \times 8 hexagon cup-head screws (4pcs)

Step 4



- 1. T8 screw (1pcs)
- 2. Coupling device (1pcs)

There are machine screws inside the coupling device, which is used to tighten the motor shaft and screw rod. The set screw is aligned with the plane of the motor shaft when installing.

Step 5



- 1. M3 \times 6 hexagon round-head screws (4pcs)
- 2. Hexagonal isolation column (1pcs)

Step 6











As shown above, installing the 4 in 1 terminal wire to its corresponding position. Then there are two key slots on the metal sheet part. Users can use a cable tie to fix the terminal wire through them.





1. Eccentric nut

Awareness: As the picture, please check whether the interfaces are loose. If they are loose, please tight the eccentric nut with wrench and make the groove of eccentric nut approach the aluminum profile. Pulley on eccentric nut will preload aluminum profile. The printer will be more stable by this way.

Step 7



Connecting the terminal wire on side to the motor's port.

Step 8



- `
- 1. M5×25 hexagon cup-head screws (4pcs)
- 2. 2020 aluminum profile—length 323mm (1pcs)

Step 9



- 1. X slider sheet (1pcs)
- 2. Belt (1pcs)

WWW.BIQU.EQUIPMENT 10

Step 10



- 1. M4×8 hexagon cup-head screws (2pcs)
- 2. M4 boat-shape nut (2pcs)
- 3. 2020 aluminum profile—length 338mm (1pcs)
- 4. M5×18 hexagon cup-head screws (2pcs)

The boat-shape nut may rotate during installation. Users could

use the screws to fix it on the aluminum profile.

Step 11



Installing the belt onto the 2020 aluminum profile.



- 1. M4 boat-shape nut (2pcs)
- 2. M4×8 hexagon cup-head screws (2pcs)

Notice: The boat-shape nut may rotate during installation. Users could use the screws to fix it on the aluminum profile.

When installation, in order to tighten the pulley and the belt, users could push the parts slowly in the X direction.

Step 13



1. M3×8 hexagon cup-head screws (2pcs)

Step 14



- 1. Feed tube (1pcs)
- 2. Quick connector (2pcs)



Step 16



- 1. M4×8 hexagon round-head screws (2pcs)
- 2. M4 boat-shape nut (2pcs)

The boat-shape nut may rotate during installation. Users could use the screws to fix it on the aluminum profile.

Step 17



1. Type-C data cable (1pcs)

2. Cable tie (1pcs)

As shown above, there are two key slots on the metal sheet part. Users can use a cable tie to fix the Type-C cable through them. But before fixing the data cable, users would better leave a certain length at the Type-C cable's end which closes to the nozzle. It facilitates the movement of the nozzle.

Awareness:

1.do not unplug the Type-C data cable when the machine is on.
 2.The Type-C cable is customized, it can not be replaced by others.

Step 18





- 1. M4×16 hexagon round-head screws (1pcs)
- 2. Z axis limit module

Fixing the Z-axis limit module on the aluminum profile by using the M4 threaded holes and the above screws.

Awareness: Please check all the screws and make sure that they are properly installed.

Installation Finished!

4. Platform Calibration

4-1 Platform Calibration

After the installation of BIQU B1, users need to perform a platform calibration on BIQU B1. The steps are as follows:

Step 1



- 1. Power switch
- 2. Power cord socket

Awareness: Before turning on, please check whether the voltage mode matches your household power supply. If not, you can select the mode by using screwdriver.

Confirming that the wiring is steady and correct. Inserting one end of the power cord into the power cord socket and the other end into the household power supply, and then turn on the power switch of the machine.

Awareness: do not unplug the Type-C data cable when the machine is on.

Step 2



Clicking on the touch screen homepage (1) " Menu " \rightarrow (2) " Movement" \rightarrow (3) "Home" \rightarrow (4) "Z" $_{\circ}$

The nozzle moves back to the zero point of the Z axis, which is above the platform. Twist the 4 hand-tight nuts counterclockwise under the hot bed so that there is a distance of $3 \sim 6$ mm between the hot bed and the nozzle.



1. Hand-screw nut (4pcs)

WWW.BIQU.EQUIPMENT 18

Step 3



Select from the touch screen in the previous step (1) "Back" $\rightarrow (2)$ "Leveling" $\rightarrow (3)$ "Point 1" .

When the nozzle moves to the "first point" position(as shown below), and user put a piece of A4 paper under the nozzle. Twisting the hand screw nut to make the nozzle just contact with the A4 paper and that the A4 paper can move smoothly with slight friction.





Hand-screw nut (4pcs)
 Nozzle-head (1pcs)

3. A4 paper (1pcs)4. Nozzle (1pcs)

When users turn the hand-screw nut clockwise, the platform will rise, and when users turn the nut clockwise, the platform will fall.

In the same way, touch the "second point", "third point" and "fourth point" on the screen in turn, and use the same method to turn the hand-screw nut under the platform to manually level the platform.

4-2 Fill in filament





- 1. Extruder handle
- 2. Filament

Cut a bevel on filament with Diagonal pliers, Holding the handle of the extruder while users pushing the filament into the extruder into the feed tube.

Awareness: Please check all the screws and make sure that they are properly installed.

Calibration Finished

5. Ready to print

5-1 Introduction to working mode

BIQU-B1 3D printer has two working modes, offline printing mode and online printing mode.

Offline printing : After adjusting the platform, save the slice file generated by the slicing software in the TF card, then insert the TF card into the TF card slot of the base, click "Print" from the main interface, and then select the file in the TF card to print.

Online printing : Connected the computer with the 3D printer through a data cable, using slicing software (such as Ultimaker Cura) to control the printer. However, printing signal transmitted through the data line may cause unstable factors such as signal interference. Therefore, it is recommended that the customer use offline printing if possible.





5-2 Installing Driver software



Turn on the power of the 3D printer, and connect the computer to the 3D printer through the data cable. Right-click "This Computer" \rightarrow "Properties" \rightarrow "Device Manager", and then the window will show above. If there is a yellow exclamation mark or question mark shown in the box, users need to manually install the driver. If not, it means that the driver has been installed automatically, no need to perform the following driver installation steps.

Then follow the prompts shown above to install the driver software.





WWW.BIQU.EQUIPMENT 24



If the computer contains a firewall or anti-virus software, please manually agree to install the driver.



25



After successfully installation, you can see a random port named "Marlin USB Serial (com47)". 47 is a random number. Different numbers may appear according to different PC types. (If it is the same computer and the same printer, the port number will remain unchanged.) This port will be used for data communication between the printer and the computer.

Ps: Because the user's computer environment is different, after the driver installation is complete, if there is an exclamation mark under the "port", it means that the installation has encountered problems. At this time, please unload this port and then install the driver again.



5-3 Install Ultimaker Cura Software



Double click the "Ultimaker.Cura-4.6.0-win64-beta.exe" application file, the software installation window will show above, please follow the below illustration to install the software.



Ultimaker Cura 4.6	安装)
	选择安装位置	5			
	选择 "Ulti	maker Cura 4.6"的多	₹装文件夹。		
Setup 将安装 Ulti (B)] 并选择其他的	maker Cura 4.6 在 文件夹。 単击 [下-	下列文件夹。要安装到 −步(N)] 继续。	不同文件夹,单	单击 [浏5	đ
目标文件夹 C:\Program Fil	.es\Ultimaker Curs	4. 6	浏览(B)	1
所需空间: 577.2MB 可用空间: 248.0GB			Bro	wse	
illsoft Install Sy	stem v2.51	< 上一步(P) T	√-步(N) >	取消(C)
			Novt		

Select the location of the file installed.

<u></u>		
选择"开始菜单"文件夹,用于程序	亨的快捷方式。	
选择"开始菜单"文件夹,以便创建程序的快捷方式。你也可以	输入名称,创3	聿 新文件夹:
Ultimaker Cura		
Accessories		1
Administrative 1001s AutoCAD 2014 - 简体中文(Simplified Chinese)		
Autodesk Autodesk Woldflow Communicator 2018		
Autodesk Moldflow Insight 2018		
Autodesk ReCap CADdoctor for Autodesk Simulation 2018		
Java		
KeyShot 6 64		~
□ 不要创建快捷方式(N)		
lsoft Install System v2.51		
< 上一步(P) 下	-步(N) >	取消(C)
	vext	

WWW.BIQU.EQUIPMENT 28

BIQU-B1 USER MANUAL



♥Utimaker Cura 4.6 安装
■ 正在完成 "Ultimaker Cura 4.6" 安装向
● Utimaker Cura 4.6" 定装在你的系统。
● Ultimaker Cura 4.6" こを装在你的系统。
● 単击 [完成(P)] 关闭此向导。
● 図 运行 Ultimaker Cura 4.6(R)
● 図 运行 Ultimaker Cura 4.6(R)
● 図 运行 Ultimaker Cura 4.6(R)

Finish

Ultimaker Cura Installation Completed!

BIQU®

5-4 Software Settings

After the installation, if users open the software for the first time, please set the software according to the following steps.





BIQU-B1 USER MANUAL







31

BIQU®

	Add a printer	
Add a network	ed printer	۲
Add a non-netv	vorked printer	~
VItimaker B.V.		
Custom	rinter	
101Hero		
> 3Dator GmbH		
3DMaker		
3DTech		
ABAX 3d Techno	blogies	
Alfawise		
Anet		
Printer name	Custom FFF printer	

Custom FFF pri	inter		
Printer		Extrud	er 1
Printer Settings		Printhead Setting	IS
X (Width)	235 mm	X min	-20 mm
Y (Depth) 2.	235 mm	Y min	-10 mm
Z (Height)	270 mm	X max	10 mm
Build plate shape	Recta 🗸	Y max	10 mm
Origin at center		Gantry Height	270 mm
Heated bed 3.	~	Number of Extruders	1 🗸
Heated build volume		Shared Heater	
G-code flavor	Marlin 🗸		
Start G-code		End G-code	
G28 ;Home		M104 S0	

WWW.BIQU.EQUIPMENT 32



Printer		1.	Extruder 1	
Nozzle Settings				
Nozzle size	0.4	mm		
Compatible material diameter2.	1.75	mm		
Nozzle offset X	0	mm		
Nozzle offset Y	0	mm		
Cooling Fan Number	0			
Extruder Start G-code	E	xtruder	End G-code	•



imaker Cura		PREPARE PREVIEW	MONITOR		Marketplace
Custom FFF printer	< 🕻	Generic PLA	< Fine - 0.1mm	🖾 20% 🗳 C	ff ÷On ℓ
		Ultimaker Cura 4.6.1 is available!	×		

Click "preference" \rightarrow "configure cura"

Settings	rinters	3	
Materials Profiles 2.	ocal printers Custom FFF printer	Custom FFF printer	
		Update Firmware Machine Settings	
Printers			

WWW.BIQU.EQUIPMENT 34



l			
General Settings	Printers		
Materials	Activate Add Remove	Rename	
Profiles	Local printers Custom FFF printer	Custom FFF printer	
		Update Firmware Machine Settings	
	Rename	×	
	1 Please provide a new na	me.	
	BIQU-B1		
		2	
		Cancel OK	
	BIQU-B1		
		3	
Defeater			Close

Software Setup Completed!

5-5 Usage of Ultimaker Cura Software



Drag the model file of stl format into the slicing software window.

tim aker Cura	2.	PREPARE	PREVIEW 3 N	MONITOR		Mark	etplace S
BIQU-B1	<	Generic PLA	~	루 Draft - 0.2mm	🖾 20%	🖸 Off 🕯	off 🥒
	Custom	4		Print settings			×
	Material	PLA	~	Profiles	0.06 0.1 0.1	5 0.2 0.3 0	.4 0.6
DIOLL	1			Default	000	-) <u> </u>
BIQU-E	51			🔀 Infill (%)	0 20	40 60 80	100
		PLA			Graduil Infil		
			8	Support			
				÷ Adhesion		0.2	
					20	Cus	tom >
				11111	1		

Select the printer model that users has previously set and select the slice parameters.

Edit Viev Settings Extensions P	eferences Help	EVIEW MONITOR		Marketolace Sign i
BIQU-B1	< 0 Generic PLA	Craft - 0.2mm	⊠ 20% 🗳	off ÷ off ≠
へ Object list				
118.1 x 61.0 x 94.5 mm	Scaling Object Auto scaled object to 10000	X of original size		Slice

The slicing software starts slicing the model.



Slice Completed!

6. Start Printing

6-1 Offline printing

Step 1 After the slicing software finishes slicing the model, users can start printing. First save the G-code file to the TF card after model slicing,



WWW.BIQU.EQUIPMENT 38

Step 2



Put the G-code file from TF card in the card slot. (As shown in the figure)

Step 3

Connect the power cord, turn on the machine, and select on the touch screen homepage (1) "print" \rightarrow (2) "TFT SD", Then select the slice file saved in the TF card. The printer nozzle and hot bed start to heat. After warming to the target temperature, the machine will automatically reset to zero and then start printing.

After printing is completed, the print head and hot bed will automatically cool down. When the temperature of nozzle and hot bed reach indoor temperature, users then can remove the model.



6-2 Online Printing

Step 1

The computer is connected to the 3D printer via a data cable. Insert one end of the data cable into the USB port (as is shown below), and the other end into the USB port of the computer.



40

Step 2

Open the slicing software. Drag the stl format model into the slicing software window to slice the model.



After slicing, click "Print via USB" to start online printing.

7. Other Functions

7-1 Manual leveling

Step 1 Choose from the touch screen homepage (1) "Menu" \rightarrow (2)



Step 2 When the nozzle moves to the "first point" position(as shown below),

and user put a piece of A4 paper under the nozzle. Twisting the hand screw nut to make the nozzle just contact with the A4 paper and that the A4 paper can move smoothly with slight friction.

When users turn the hand-screw nut clockwise, the platform will rise, and when users turn the nut clockwise, the platform will fall.

BIQU®

BIQU-B1 USER MANUAL



In the same way, touch the "second point", "third point" and "fourth point" on the screen in turn, and use the same method to turn the hand-screw nut under the platform to manually level the platform. **Step 3** After manual leveling, you can click "Plane test" in the previous operation interface, the printer starts printing, and the customer can evaluate the leveling effect of the platform based on the printing effect for the next optimization.



		The distance between the nozzle and the platform is appropriate, and the extruded filaments stick to the printing platform.
X	-	If the distance between the nozzle and the platform becomes too long, it will cause the extruded filament leaving printing platform. User should twist the nut slightly and clockwise to raise the platform a little bit.
		If the distance between the nozzle and the platform becomes too close, it will cause damage to the nozzle and printing platform. User should twist the nut slightly and clockwise to low down the platform.



7-2 Automatic Leveling (Optional)

This function may require customers to purchase BLtouch, and install it on the BLtouch stand of the 3D printer.

Choose from the touch screen homepage (1) " Menu " \rightarrow (2) "Movement" \rightarrow (3) "ABL" \rightarrow (4) "ABL" $_{\circ}$



Note: If users does not install BLtouch on BIQU-B1 or does not install it properly, the touch screen will pop up a prompt window, as shown below:



45

The 3D printer starts to level automatically, the BLtouch probe descends, and the nozzle head also descends. Until the probe touches the first point of the platform, and the probe and nozzle start to rise. After the first point, the nozzle-head would move above to the second point and repeat this operation until all the 25 points on the platform are tested.



After finishing the automatic leveling, user can click "Repeat" in the previous operation interface, the printer starts printing, and the users can evaluate the leveling effect of the platform based on the printing effect to optimize the next step.



WWW.BIQU.EQUIPMENT 46

7-3 Intelligent filament detection Sensor Module (Optional)

If users has a higher pursuit, users can additionally purchase a smart filament detection sensor module, and upgrade filament run out detection module into an intelligent filament detection sensor module.

First, users remove the filament run out detection module from BIQU-B1, and then installs the smart filament sensor module. Choosing from the homepage of the 3D printer touch screen ① "Menu" \rightarrow ② "Settings" \rightarrow ③"Feature" \rightarrow ④"Page down" \rightarrow ⑤"Filament sensor".



On the option of Filament Sensor if shows "SMART" indicating that the intelligent filament detection function is turned on.

Supplements:

When the button of "Filament Sensor" shows "ON", owes to filament run-out detection module, BIQU-B1 starts detecting filament run out status.

When the button of "Filament Sensor" shows "intelligent", owes to smart filament detection sensor module, BIQU-B1 starts detecting filament-jam status.

When the button of "Filament Sensor" shows "OFF", BIQU-B1 would neither detect filament run out nor filament-jam status.

Normally, BIQU-B1 defaults to open filament run-out detection function.



7-4 Model Preview

When there are many 3D printed files in the TF card, it is difficult for users to find the files they needed. The model preview function can help users find their target files more quickly and directly.

The function will be described in detail below.

Step 1 Set up the UltimakerCura. Open the UltimakerCura, and then click "preference" \rightarrow "configurecura".





Uncheck the "Add machine prefix to job name"

Step 2 Save the G-code file in the root directory of TF card after

slice.



imaker CL	Save to File	PREPARE	PREVIEW N	IONITOR				×	olace
BIQU-I	← → ~ ↑ ■ > #	(电脑 > 桌面 > 切片文件		~	0	○ 搜索"切片	文件*	+ 0)n ≉
	组织 * 新建文件夹						⊫ •	0	
	 此也脑 3 D 对象 A 360 Drive 磁域 圖片 文档 文档 首乐 画画 	56 [^]	1 没有与搜求	\$改日期 条件匹配的	顷.	樊型	t	elv.	
	🐛 Windows (C:) 🗸	<						>	
	文件名(N): 经典 保存类型(T): G-co	小船 ode File (*.gcode)						~	
へ Object list ● 经典小船 118.1 x 61.0 x 94.5 m	へ 隐藏文件夹	Scaling Object Auto scaled object to 1	0000% of original size	1111	<	保存(S)	取消 8g · 21.04m	Save to F	ile

Note: Save the G-code file in the root directory of TF card, and name of G-code should be same as the thumbnail's.

Step 3 Open the "ModelBuildV1.1.0_x64" file and find the "BIGTREE_Tools" application in the folder, then double-click to open it. The following software window will pop up.



Click "Load File" to find the stl format model file that users want to slice. Select the model file and click "Open", the software will automatically load the model.



After the model has been loaded, click "OK".

Step 3 Select the appropriate model preview angle and click "Output

Thumbnail". And then select the output location where the G-code file of the model is located. Click "Save".



Output thumbnail

BIGTREE GCODE 3D	Viewe	r					-		
送择保存图片位置	(默认根	奠型文件所在路径)							×
← → × ↑ 🖡	〉此	电脑 〉 桌面 〉	切片文件	~	Ö	。 捜	索"切片文件"		
组织 • 新建文化	*夹							-	0
 一 此电脑 ③ 3D 对象 	^	名称	^	修改日期 没有与搜索条件匹配	的项。	类	型	大小	N
 ▲ A360 Drive ● 视频 ■ 図片 									
🗟 文档 🦊 下载									
♪ 音乐	d,								
📞 Windows (C) ~	<							
文件名(N):	经典/	小船				Sa	ve		,
保存类型(T):	Imag	e Files *.bmp				54	••		,
へ 隠藏文件夹 近译文件 C:\U;	sers\P	otter 老猫\Deskte	op\切片模型\经典小船	sti		保存	5(S)	取消	
		加载文件				导出缩略图	2		_



After the thumbnail has been outputted, click "OK".



The thumbnail file of the model is required to be placed in the same folder with the G-code file. The 3D printer will automatically recognize the G-code file corresponding to the thumbnail.

Note: Save the G-code file in the root directory of TF card, and name of G-code should be same as the thumbnail's.

Step 4 Choose from the touch screen homepage ① "Menu" \rightarrow ② "Settings" \rightarrow ③ "Feature" \rightarrow ④ "Page down" \rightarrow ⑤ "Page down" \rightarrow ⑥ "Files Viewer List Mode" 。



When "Files Viewer List Mode" option turns red, it means that the machine has opened the file browsing mode.





Choose from the touch screen homepage "Print" \rightarrow "TFT SD", and when selecting the slice file saved in the TF card, users will see the interface of the print file has been changed. The outputted sliced files will display thumbnail icons, while without outputted sliced files will not display thumbnail icons. Users could select the slice file they want to print at a glance.

7-5 Marlin Operating System

BIQU-B1 has also equipped with a retro-style Marlin operating system, users can choose their favorite operating system according to their own preferences. Below is a brief description of the system.

Step 1 Long press the knob next to the touch screen, select "Marlin

Mode" on the left, then Marlin operating system will appear on the touch screen.





Step 2 Short press the knob, it will skip to the operation interface of (1) (as shown below) And when the user turns the knob clockwise, the option will move page down. Moving option to (2) "Print from Media", then short pressing the knob, it will skip to the operation interface of (3) (as shown below). Moving down option to the file to be printed (4) and short pressing the knob.

Note: In the Marlin system, turn the knob clockwise, the option will move down. Turn the knob counterclockwise and the selection will move up.



The printer nozzle and hot bed start to heat. After warming to the target temperature, the machine will automatically reset to zero and then start printing.

After printing is completed, the print head and hot bed will automatically cool down. When the temperature of nozzle and hot bed reach indoor temperature, users then can remove the model.

8. Troubleshooting

Question 1	layershifting
	Printing too fast, please control the speed between 60 ~
Answer 1	80mm /s. The bell nully or bell might be loosened. Tighten them
	up.
	The stepper motor is missing steps. The current through
	the motor might be too small so that the stepper motor
	doesn't have enough torque. Increase the output
	voltage from the stepper driver to increase the power of
	The stepper motor.
	he overheated Overheating might affect the
	performance of steppers.

Question 2	Filament leak
Answer 2	The nozzle is not tightened. Heat up the nozzle and remove the filament before tightening the nozzle with a plier. Do not touch the heated nozzle with your hand!

Question 3	Difficult to install filament
	Straighten the end of the filament with your
	hand, and cut the very end of the
Answer 3	filament to a 45 degrees angle with plier.
	The screw on the extruder is too tight, slightly
	loosen it.
	Filament jam in the white filament tube, heat up
	to 230 degree and remove the
	jam filament.

Question 4	Printting edge warping
	The nozzle is far away from the platform, adjust the distance between the platform and the nozzle-head.
Answer 4	Insufficient cooling is possible, make sure the fan is working.
	Providing a closed environment in order to keep the temperature stable.
	Reducing the printing speed and allowing enough time to adjust the temperature change.
	The line width of the first layer is widened, that is, to
	increase the extrusion amount of the bottom layer.
	Adding Brim support.

Question 5	Bobbling on the top of the print
Answer 5	Insufficient cooling is possible, make sure the fan is working.
	Top layer height is too thin, increase top layer height in your print setting.

Question 6	Cracks and Gaps in 3D prints
Answer 6	Insufficient extrusion. Double check and see if there are any loosen parts in your printer.
	Make sure the diameter of your filament is consistent.
	Add some machine/motor oil on the rail to ensure the print bed and extruder can slide smoothly.

Question 7	During the printing process, the extruder emits
	the abnormal sound of "Kakaka"
	Might be a nozzle jam, you could use needle tools to unblock $_{\circ}$
Answer 7	The quality of the printed materials is not high, you can try another material.
	The print head temperature is too high, and the material is carbonized into small black particles. Try to
	The torque of the feeding part needs to be adjusted.

Question 8	Inconsistent extrusion		
	Check and see if the filament is jammed.		
Answer 8	Check and see if there is a nozzle jam.		
	Double check if you are using the correct layer height		
	and filament size setting.		
	You might be using low quality filament that would		
	often break.		

Question 9	Stringing
	Adjust the retraction setting by 1mm each time and compare the result.
Answer 9	Change the retraction distance and retraction speed.Generally, the better range of the retraction effect is 20 ~ 100mm / s. If you want to set the most ideal value, you need to experiment to control different speeds to see if the amount of wire is reduced.
	Try lowering the print temperature by 5 degrees each time.
	Lower the travel distance. Lower the distance between each model if you are printing multiple models a time.

9. Cautions

1. To prevent scalds, please don't touch the nozzle or the heated bed when the printer is printing.

2. Please don't touch the magnet bed immediately after a print is done, wait for the hot plate to cool down before taking the print out.

3. Place the printer on top of a rigid body, otherwise, print quality might be affected.

4. Don't place your hand inside the printer, avoid getting slam or pinch by the printer.

5. Don't use the printer over 100 hours continuously, otherwise, the machine might overheat and cause damage.

6. For safety, people under 18 must be supervised by adult when using the printer.

7. Don't place the printer near flammable substance. Place your printer at a ventilated, clean and cool environment.

8. Follow the user manual carefully. Disassemble or modify your printer without permission might cause damage to your printer, and the user will be responsible for all the causes.

Shenzhen Bigtree Technology Co.,Ltd

Address: 2/F,Building B,No.9 East Area,Shangxue Technology Park, Longgang District,Shenzhen,Guangdong,China

- Tel: +86 755 3313 3143 +86 137 9898 0050
- Email: support@biqu3d.com
- WEB: www.BIQU.equipment