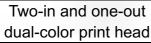
BIQU-B1-Two-in-one-out dual-color printing upgrade kit







Bowden extruder



Filaments bracket

specification				
Applicable mdoel	BIQU-B1			
Printing Size	235 x 235 x 270mm			
Molding Tech	FDM			
Nozzle Quantity	1PCS			
Filament quantity	2PCS			
Layer Thickness	0.1mm - 0.3mm			
Nozzle Diameter	Standard 0.4mm			
Printing Accuracy	±0.05mm			
Filament	PLA			
Slicing Format	STL / OBJ/ AMF			
Connecting Method	Via data cable / TF card / USB			
Slicing Compatible	With Cura / Repetier-Host / Simplify 3D			
Max Temp of Nozzle	260C°			
Dual color printing	support			

Product specification

Heating Rod Specifications

Head size 5*20mm

• Power: 30w

• Cable : 70mm

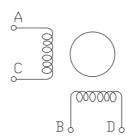
Fan Specifications

	4010 Hydraulic	4010 Hydraulic	4010 Turbofan
	Bearing	Bearing	
Size	40*40*10mm	30*30*10mm	30*30*10mm
Cable	150mm	80mm	100mm
Voltage	24V	24V	24V
RPMS	6000±10%	6000±10%	6000±10%
Herminal model	DuPont 2.54"	DuPont 2.54"	DuPont 2.54"

Motor Specifications

Items	Specs		
Motor cable length Rated	1000mm		
Rated voltage	DC3. 45V		
Rated current	DC 1.5A/phase		
Phase number	2		
Winding DC resistance (25°C)	2. 3X (1±10%) Ω		
Winding inductance	2. 0X (1±20%) mH		
Holding torque	≥110m N · m		
Positioning torque	7mN · mREF		
Insulation resistance	≥100MΩ (DC 500V)		
Insulation class	Class B		
Moment of inertia	8g · cm ³		

Winding arrangement

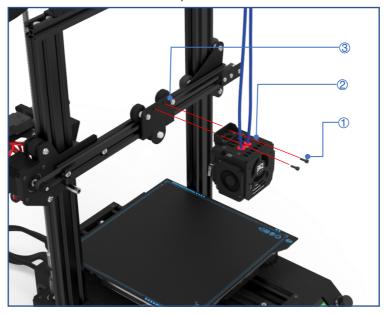


Connector Pinout



-. Install the upgrade kit

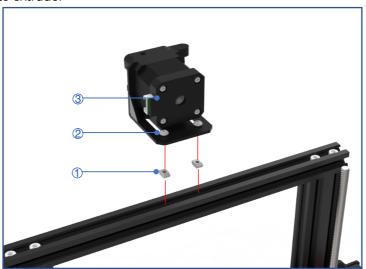
1. Install two-in and one-out dual-color print head



- 1)M3x8 Hexagon socket head screw
- ②Two-in and one-out dual-color print head
- ③BIQU-B1-Fixed nozzle slider

Align the holes on the two-in and one-out two-color print nozzle with the threaded holes of BIQU-B1-fixed nozzle slider, and fix them with M3x8 hexagon socket head screws.

2. Install remote extruder



- 1)M4 boat nut
- 2M4x8 Hexagon socket head screw
- 3 Bowden extruder+stepper motor

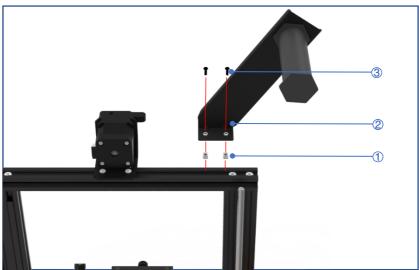
Put the boat nut into the gantry profile, and use the corresponding hex wrench to tighten the M4x8 inner hexagon socket head screw placed in the sheet metal of the extruder with the boat nut to fix the extruder on the gantry.

Note: The boat nut needs to be placed in the longitudinal direction, and the ship nut is placed horizontally in the gantry profile by rotating the screw to have an effective fixing effect.

3、Install filaments bracket



- 1) filaments bracket sheet metal
- 2 filaments bracket barrel
- ③ filaments bracket nut
 Fix the barrel on the sheet metal by the nut

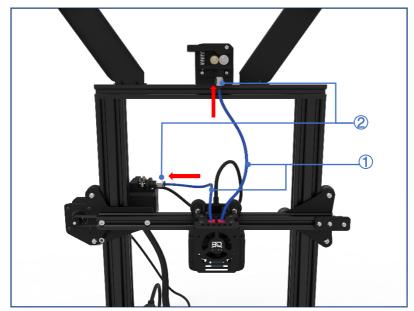


- ①M4 boat nut
- 2 filaments bracket
- 3M4x8 Hexagon socket head screw

Put the boat nut into the gantry profile, and fix the filaments bracket on the gantry with M4x8 hexagon socket head screws

Note: The ship nut needs to be placed in the longitudinal direction, and the ship nut is placed horizontally in the gantry profile by rotating the screw to have an effective fixing effect.

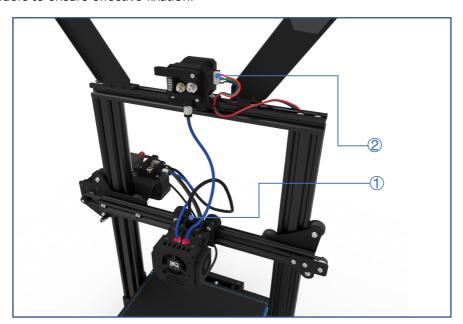
4. Connect the data cable and Teflon tube



1Teflon tube

2Fitting

The nozzle is a two-in and one-out two-color printing nozzle, so two Teflon tubes and two remote extruders are required. Insert the Teflon tubes into the quick connectors of the extruders to ensure effective fixation.



1 Print head data line

2 Bowden extrusion motor data cable

Insert the print head data cable into the print head socket so that the two-in and one-out two-color print head can be connected to the main board. Insert the bowden extruder motor data cable into the extruder motor, so that the extruder motor can be controlled through the main board.

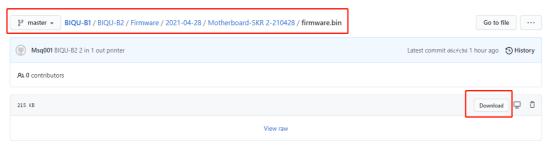
Installation and connection complete

二、Print preparation

1. Refresh the firmware

Download the firmware from the website to the TF card, then insert the TF card into the TF card slot of the machine, and click the reset button on the machine to refresh the firmware.

https://github.com/bigtreetech/BIQU-B1

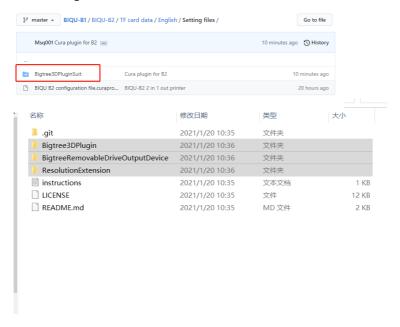


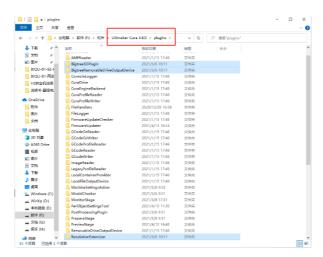


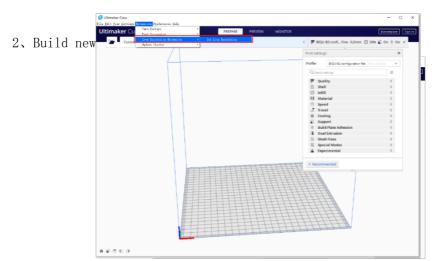


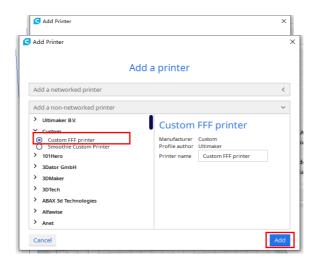
三、Model slice

1. Installation of the slicing software plug-in: download the plug-in file from the website, replace the file to the specified location on the slicing software, and find the effective plug-in function on the slicing software.

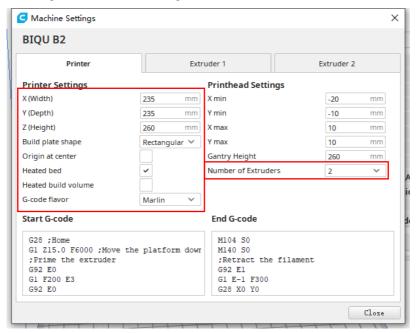


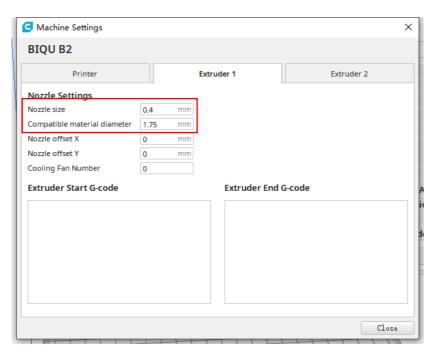




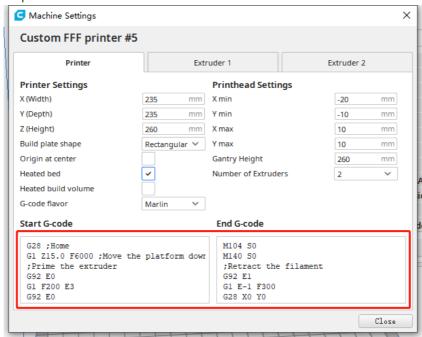


3. Set the basic parameters of the printer:





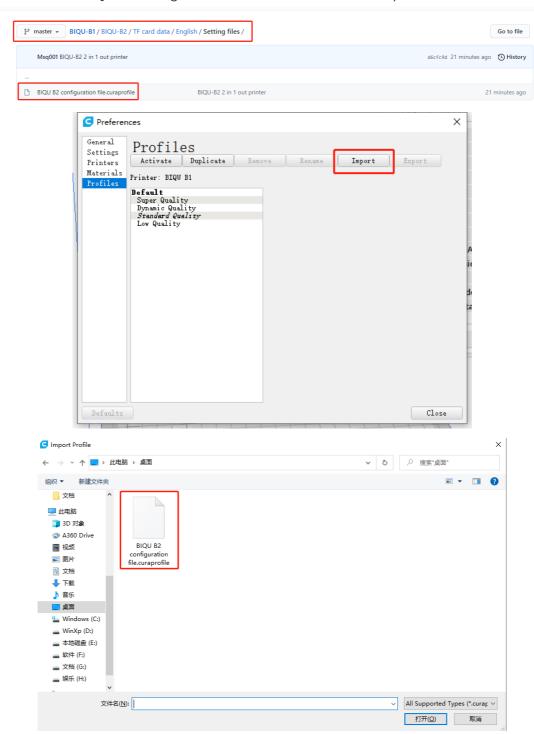
Setting of the printer's start and end code:

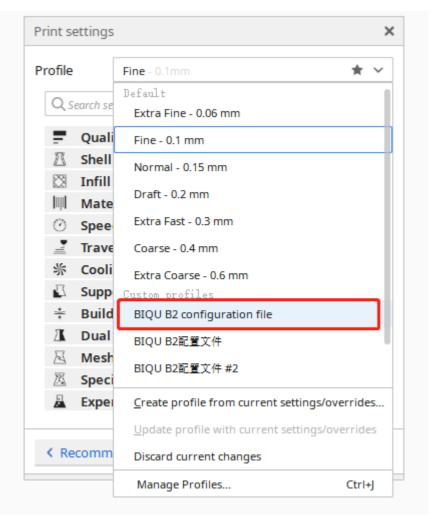


Download the corresponding start code and stop code of the B2 print head from the website, and replace the code on the slicing software.

3. Import of printing parameters

Download the BIQU-B2 configuration file from the website and import it into Cura.

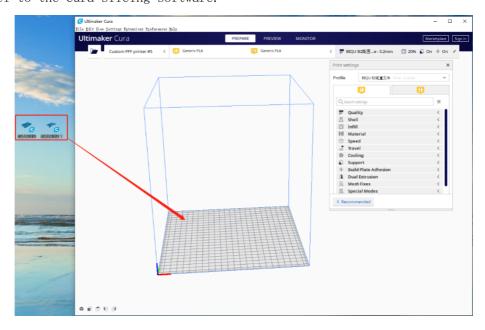




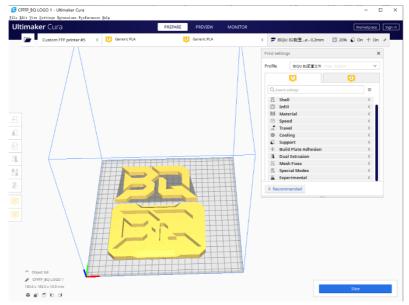
After the import is successful, the model can be sliced.

4, Model slice

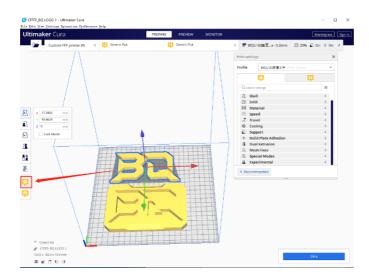
Add the model to the Cura slicing software.



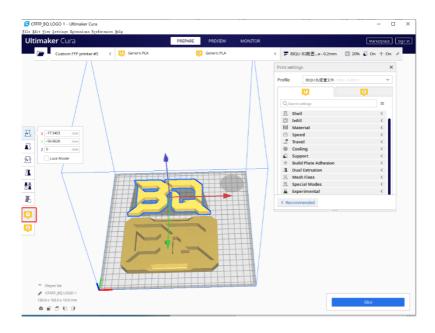
Color definition of two models



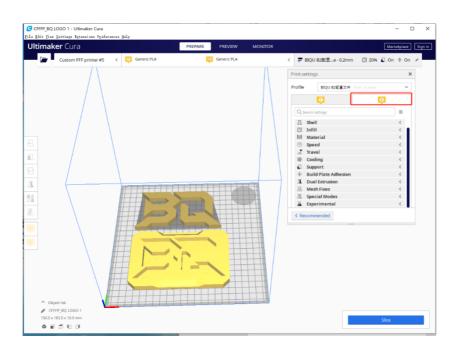
Select the model separately, click 1 or 2 on the left to set two different colors.



After the setting is complete, click the model to be in the highlighted state, the color on the left side is the selected state, and the other model is in the dimmed state.

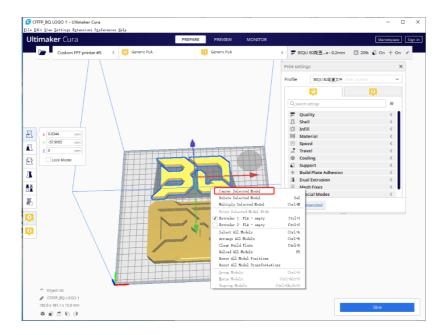


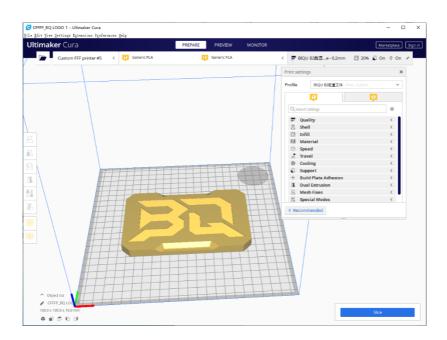
After setting the corresponding color, you can set the printing parameters for the individual output color.



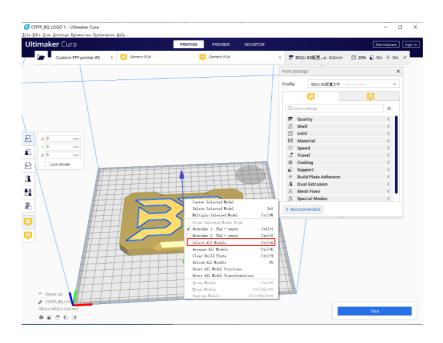
5, Combination model

Layout the two models in the center respectively, select the model, click the right mouse button, and lay the model in the center.

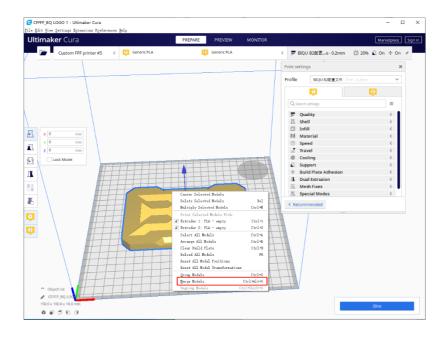




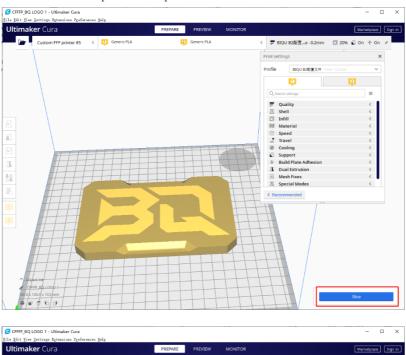
Click the right mouse button, click to select all models

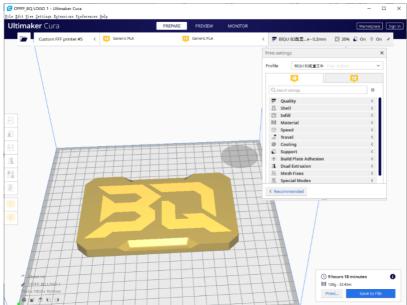


After the merging is completed, click the right mouse button to merge the models.



6. Slice the model and export the print file





Slicing completed