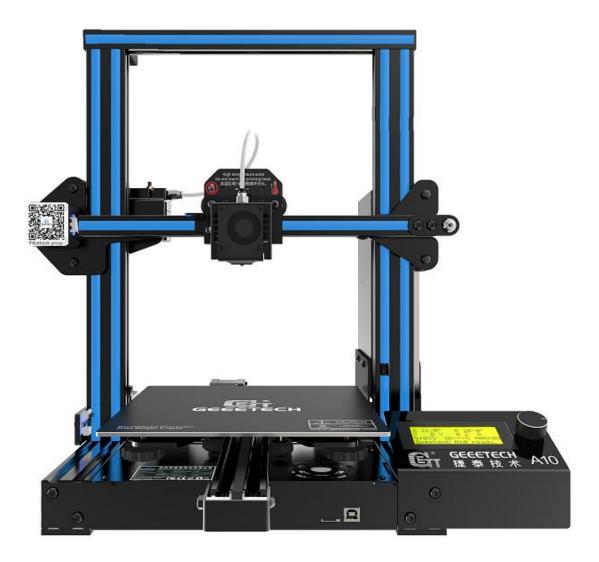


Geeetech A10 3D Printer

User Manual (V0.01)





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V



Thank you for choosing Geeetech products!



[Important] Please read the instruction manual carefully before using this machine.



Official site: https://www.geeetech.com/



Email us for technical support: <u>https://www.geeetech.com/contact_us.htm</u>







1 Attention

1.1Safety instructions

• Please switch to the correct local voltage (110V-220V) before turning on the printer. Be sure the switch is in the correct position or it will damage the power supply unit (PSU).



- Be sure all wires are correctly connected before turning on the printer.
- Don't touch the extruder head or hot bed when printing as they generate high temperature which may cause burn.
- Don't leave the printer unattended when printing.

1.2Factory test before delivery

In order to ensure the quality, each printer is tested in the factory before delivery. As a result, there may be residue in the extruder head or on the hot bed, but it should not affect normal use. We provide the spare nozzle in the accessory kit just in case.



2 Parameters

1) Printing parameters

Printing technology: FDM Printing volume: 220*220*260 mm³ Printing accuracy: 0.1~0.2mm Positioning precision: X/Y: 0.011mm Z: 0.0025mm Printing speed: 60mm/s Nozzle quantity: 1-in-1-out single nozzle Nozzle diameter: 0.4mm Filament: Diameter 1.75mm;ABS/PLA, etc. Environment temperature: 10°C-40°C Operating system: Windows/Mac/Linux Slicing software: Repetier-Host, EasyPrint 3D, Cura File format: .STL/.Gcode

2) Electrical parameters

Power input: 115/230V AC, 50/60Hz Power output: DC24V-15A Max, 360W Connectivity: TF card, USB Display screen: LCD2004 screen

3) Mechanical parameters

Printer size: 478x413x485mm³ Package size: 530x470x230mm³ Net weight: ~7.6kg Gross weight: ~ 9.5kg



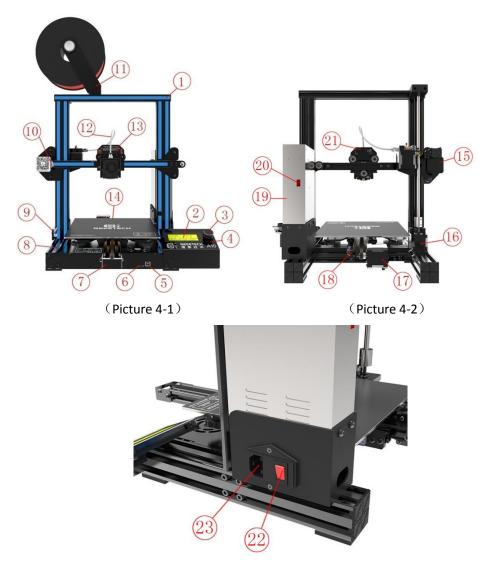
3 Packing list

Please check the parts/accessories when you receive the printer (As shown below). If any spare parts are missing, please contact your sales representative.

	Accerticol	Geeerech A10
Gantry kit	Bottom kit	LCD display kit
\\\ /\ °		
Gantry and base installing screws	PSU kit	Power cord
1	11/11	OCENTOR There is another Description
Spool holder component	Power and LCD screen installing screws	Mouse pad
TF Card	Tool kit	Nozzle *2
User guide	Teflon tube & Zip ties	USB cord
0		
Filament(1 random colors)		



4 Machine Overview



(Picture 4-3)

Gantry kit; 2LCD2004 screen; 3Knob; 4Reset button; 5USB port;
 GTF card slot; 7Y axis; 8Bottom kit; 9Z axis end stop; 10X axis end stop;
 Spool holder component; 12Teflon tube; 13Extruder head; 14Hot bed; 15X axis motor;
 Z axis motor; 17Y axis motor; 18Y axis end stop; 19PSU; 20Power voltage selector switch;
 Extruder wire connector; 20Power switch; 23Power socket



5 Assembling

5.1Assembling the main frame

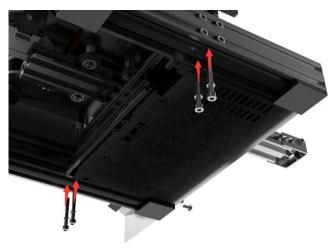
The main frame consists of the following components: Gantry kit, bottom kit, LCD display kit, PSU kit, Spool holder component, and its associated screws.

See picture (5-1)

Gantry kit	Bottom kit	LCD display kit& PSU kit		
	0000	11/11		
Spool holder component	Gantry and base installing screws	Power and LCD screen installing screws		

(Picture 5-1)

The gantry and bottom frames are assembled from the bottom of the machine with 4 M5x45 screws and 4 spring washers M5. See picture (5-2).



(Picture 5-2) Fix the PSU to the gantry frame with 2 M4x20 screws. See picture (5-3).





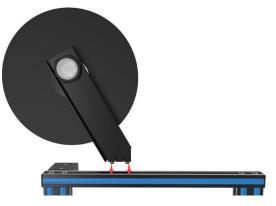
(Picture5-3)

Fix the LCD to the correct holes on the right side of the base with 2 M5x10 screws. See picture (5-4).



(Picture 5-4)

Assemble filament holder and attach to the top of the frame closing to the extruder side, with 2pcs M3x6 screws and 2 T- nuts M3, as shown picture (5-5).



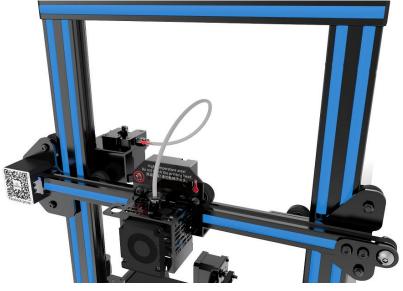
(Picture 5-5)



•

5.2Wire connection

Insert the Teflon tube into the quick-insert connector. Details see picture (5-6).



(Picture 5-6)

Insert the LCD cable into LCD socket behind the LCD screen. See picture (5-7).



(Picture 5-7)

Connect two sets of power cables (note: can be connected arbitrarily without order) See picture (5-8).



(Picture 5-8)



•

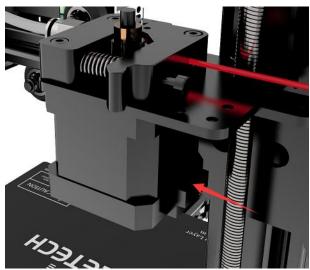
Shenzhen Getech Technology Co.,Ltd

• Plug the extruder cables into the socket of the extruder head adapter plate, and the buckle must be fastened. See picture (5-9)



(Picture 5-9)

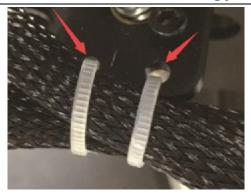
Connect the motor wires of E0. See picture (5-10).



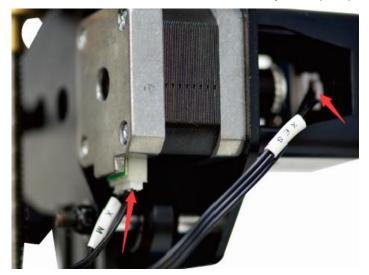
(Picture 5-10)

Then the extruder wire and the motor extruder wire are fixed into the small hole on the backside of the lead screw with the Cable tie to avoid the wire harness touching the model during printing. In addition, the position the harness fixed needs to reserve the length of the Z-axis at the maximum height. See picture (5-11).





(Picture 5-11) Connect the X-axis motor and the X-axis limit switch wire. See picture (5-12).



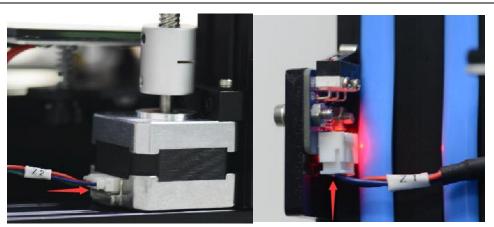
(Picture 5-12)

Connect the Y-axis motor and the Y-axis limit switch wire. See picture (5-13).



(Picture 5-13) Connect the Z-axis motor and the Z-axis limit switch wire. See picture (5-14).





(Picture 5-14)

5.3Check the power input mode

The factory default voltage is 230V. You need to choose the correct voltage according to your local standard requirement. See picture (5-15)

Note: Be sure the voltage is switched to the correct one.

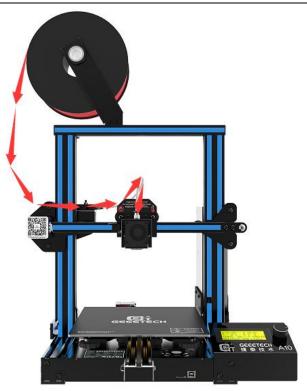


(Picture 5-15)

5.4Check the filament

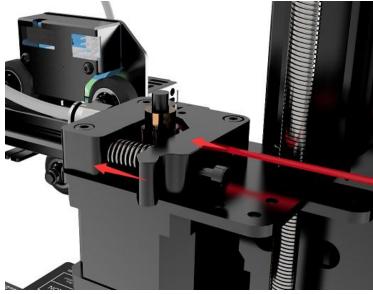
Put the filament on the spool holder. Please pay attention to the feeding direction of the filament. As shown by the arrow in (5-16).







Press down the lever handle of the extruder and insert the filament into the feeding tube until it reaches the extruder head. Since the filament is bent, so you need to straighten the front of the filament by hand and sharpen them with diagonal pliers or scissors to make it easier to insert it into the head. See picture (5-17).



(Picture 5-17)

When print PLA, set the target nozzle temperature about **190-210**°C. When the temp is stable, control the extruder filament feeding on LCD screen (**"Move axis"**), feed until there is molten material flowing from the nozzle.

Observe the nozzle, if there is no filament stuck and the filament is coming out smoothly, then



stop filament feeding, clear the nozzle with tweezers. See picture (5-18).



(Picture 5-18)



6First print

6.1 Level the print bed

The first layer is key to a successfully printed model. The factory default setting is a little high in order to avoid scratching the hotbed with the nozzle, so users need to adjust the distance between nozzle and hotbed again. After the first-time bed leveling, users don't need to level the bed again.

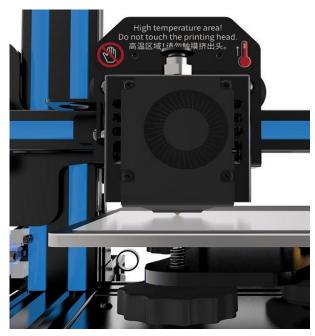
1) Rough leveling

Home the printer first ("**Prepare**"> "Auto home"), then it shows the option "Level corners" on the LCD screen. Put a piece of A4 paper on the platform, click "Next corner", the extruder head moves counterclockwise from the bottom left corner to the four corners of the platform. See picture (6-1).





When the extruder head moves to the left bottom, adjust the corresponding knob until the distance between the nozzle and bed is about the thickness of a piece of paper (about 0.1-0.2mm). Slide the paper back and forth to see if you feel a slight resistance. If yes, it means the leveling of this corner is finished and you can proceed to level the rest corners with the same method. See picture (6-2).



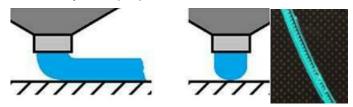
(Picture 6-2)



2) Accurate leveling

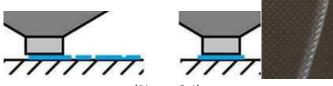
If you level the bed with A4 paper, the first layer maybe too high, too low or moderate.

a. Too high: the distance between the nozzle and bed is too far, which may cause the filament to not stick or not stick well. See picture (6-3).



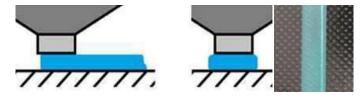
(Picture 6-3)

b. Too low: the distance between the nozzle and the bed is too close, which prevents the filament from coming out and causes the extruder gear to click, and even worse, scratch the nozzle on the bed. See picture (6-4).



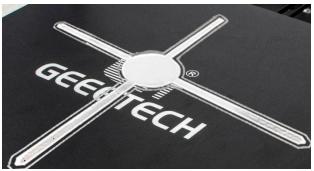
(Picture6-4)

c. Moderate: Extrude the filament properly and evenly stick on the bed. See picture (6-5).



(Picture 6-5)

In the case of too low and too high, adjust the knobs under the platform till they are moderate. It may take some trial and error to achieve the best result. An example of good first layer, see picture (6-6).



(Picture 6-6)

Note:

• If turn the knobs clockwise, the platform will rise, and vice versa.

• Avoid the nozzle touching the bed; use a piece of A4 paper. Or it will scratch the bed.

For more details, please refer to this link:

http://geeetech.com/forum/viewtopic.php?f=112&t=62296



6.2TF card printing

Insert the TF card into the slot. See picture (6-7)



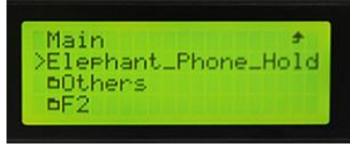


Press and rotate the knob to enter the main menu. Select the option of **"Print from SD"**. See picture (6-8).



(Picture 6-8)

Choose the files in the TF card. See picture (6-9).



(Picture 6-9) The printer will heat automatically. See picture (6-10).



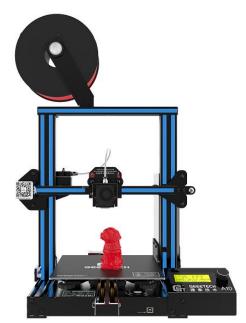


(Picture 6-10)

When **heating done**, the printer will start printing until the print is complete. See picture (6-11, 6-12).



(Picture 6-11)

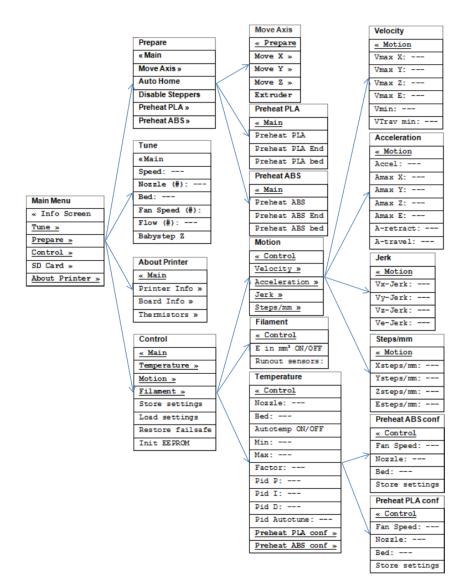


(Picture 6-12)



7 Introduction to the LCD menu

7.1Tree diagram



(Picture 7-1)

7.2Main functions

LCD rotating knob:

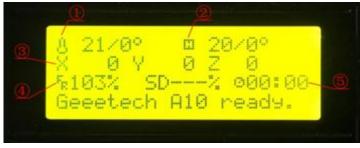
- Press the knob: Confirm or enter the next menu.
- Rotate the knob: Roll the select options or change parameters.

LCD homepage, see picture (7-2)

1. Extruder temperature: Current temp/target temp



- 2. Hot bed temperature: Current temp/target temp
- 3. Current X,Y,Z axis value
- 4. Feed rate: Current print feeding speed
- 5. Current print time

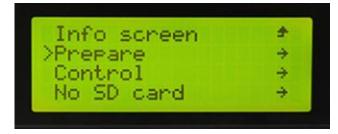


(Picture 7-2)

Note: Rotating the knob can change the printing feed rate during printing. We suggest users not changing the feed rate too much or it will make the motors to skip caused by too fast speed and affect the print quality.

Press the knob to enter the next menu (Picture 7-3):

- Prepare: Prepare and test the printer before normal operation
- Control: Printer temp and motion parameter setting
- Print from SD: TF/SD card printing(No SD card is shown when the card is not inserted)
- About Printer: The printer info





The main functions of Prepare menu (Picture 7-4, 7-5):

- Move axis: Move X/Y/Z axis and Extruder
- Auto home: X/Y/Z axis homing
- Disable steppers: Unlock motors
- Preheat PLA: Manually pre-heat the hot bed and extruder before printing PLA.
- Preheat ABS: Manually pre-heat the hot bed and extruder before printing ABS.



(Picture 7-4)

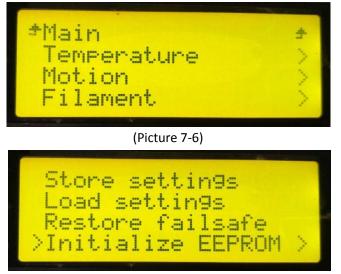




(Picture 7-5)

The main functions of Control menu (Picture 7-6, 7-7):

- Temperature: Change the temp of the hot bed and extruder in real time during printing. Customize the temp of preheat PLA and preheat ABS.
- Motion: Motion parameter setting in firmware. After modification, choose "store memory" to save the change.
- Filament: Open or close filament detector; set filament diameter.
- Store settings: Save the parameters modified.
- Load settings: If you need to restore to the original settings, please choose this option.
- Restore failsafe: Restore factory setting.
- Initialize EEPROM: Initialize printer Settings



(Picture 7-7)

Test the motors' function via LCD

Press the knob to enter the next menu; choose **"Prepare"**, choose **"Auto home"** to home the printer, see picture (7-8).



(Picture 7-8)



Choose "Move axis" to move motors. See picture (7-9)



(Picture 7-9)

Choose from **"Move X/Y/Z/Extruder** "and rotate the knob to move them. See picture (7-10).



(Picture 7-10)

Choose "Move 1mm", see picture (7-11).



(Picture 7-11)

Note: we suggest using 1mm to test each axis.

After axis' testing finished, if you want to unlock the motor, choose **"Prepare>Disable steppers"**, see picture (7-12).



(Picture 7-12)

When the motors are unlocked, you can move them by hand.



8Software setting

8.1Install driver

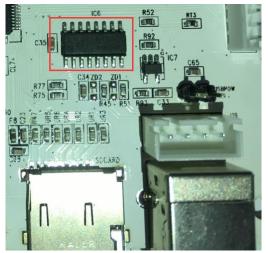
Two printing choices for A10: TF card printing and USB printing.

TF card printing: After leveling, insert the TF card into the slot, and choose a .gcode file to start printing.

USB printing: Connect the printer and computer with a USB cable to control the printer with slicing software such as Repetier-Host. Because of some unstable factors such as signal interference, the USB printing prone to fail. So we suggest choosing TF card printing.

The details of USB printing are as follows:

Firstly, turn on the printer, and connect the printer to computer with a USB cable. Normally, the computer will automatically search the install driver. The newest communication chip of A10 is CH340. See picture (8-1).



(Picture 8-1)

If it fails to automatically install the driver in computer, then check whether the driver is installed successfully or not. Click to choose **"My computer>Property>Device manager"**.

If it shows the exclamation mark as picture below (8-2), then you need manually install the driver.



📇 Device Manager	_	
File Action View Help		
V 🛃 PC-201703281069		
> 👖 Audio inputs and outputs		
> 📃 Computer		
> 👝 Disk drives		
> 🥃 Display adapters		
> 🛺 Human Interface Devices		
> 📹 IDE ATA/ATAPI controllers		
> 🥅 Keyboards		
> 🕼 Mice and other pointing devices		
> 🧾 Monitors		
> 🚽 Network adapters		
V S Other devices		
> 💭 Ports (COM & LPT)		
> 🛱 Print queues		
> Processors		
> 📕 Software devices		
> 🗃 Sound, video and game controllers		
> 🤹 Storage controllers		
> 🍢 System devices		
> 🏺 Universal Serial Bus controllers		
1		

(Picture 8-2)

Download link for CH340:

https://www.geeetech.com/index.php?main_page=download&download_id=40

After the driver is installed, check the "Device manager" and see if it is same as the picture below (8-3). If so, it means the driver is successfully installed.





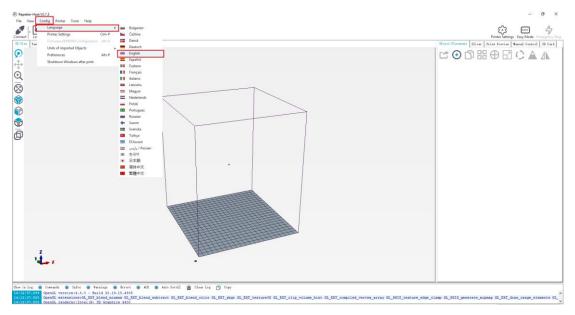
8.2Install slicing software

Repetier-Host is the default slicing software here. Download address:

https://www.repetier.com/download-software/

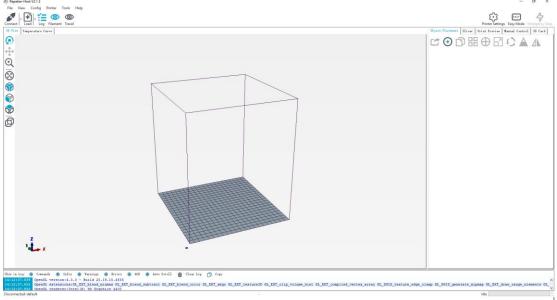
Set printer parameters

When Repetier-Host is installed, turn on the printer and open the Repetier-Host. Repetier-Host supports several languages. You can choose your native language from **Config>Language** (Picture 8-4 for details).



(Picture 8-4)

English interface for your reference (picture 8-5).

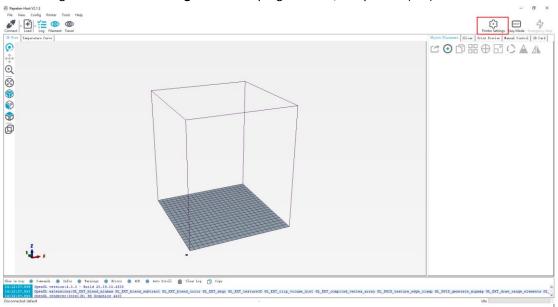


(Picture 8-5)

Using the Repetier-Host for the first time, printer parameters need to be configured before



connecting. Click "Printer settings" on the top right corner, see picture (8-6).



(Picture 8-6)

It pops up the content as the picture below. Write down the relevant info accordingly.

(Red box is the key content)

a. Connection dialog (Picture 8-7):

Printer Settings	
Printer: Gee	etech A10 🝷 🧰
Connection Prim	ter Extruder Printer Shape Soripts Advanced
Connector:	Serial Connection • Help
Port:	COM5
Baud Rate:	250000 -
Transfer Protoco	1: Autodetect 🗸
Reset on Emergen	cy Send emergency command and reconnect 🔹
Receive Cache Si	ze: 127
Communication Ti	meout:) [s]
Use Ping-Pong	Communication (Send only after ok)
are stored with	tings always correspond to the selected printer at the top. They every OK or apply. To create a new printer, just enter a new 1 press apply. The new printer starts with the last settings
	OK Apply Cancel

(Picture 8-7)

b. Printer dialog (Picture 8-8):

Do not check "Return to the parking position after the end of the task interruption" to prevent



the machine from damaging the model after the end of printing.

Printer Setting	s								
Printer:	Geeetech	A10						•	a
Connection	Printer	Extruder	Pr	inter Shape	Scrip	ts	Advanced		
Firmware T	ype:			Autodetect				•	
Travel Fee	d Rate:			4800		[mt	n/min]		
Z-Axis Fee	d Rate:			100		[m1	n/min]		
Manual Ext	rusion Spe	eed:		2		20)		[mm/s]
Manual Ret	raction Sp	eed:		30		[m	m/s]		
Default Ex	truder Tem	perature:		200		° (с		
Default He	ated Bed T	Cenperature	:	55		° (с		
_	temperatur y 3 second ion: X:	0		om Log] Z mi	-		[mm]	ter Job/Kill
✓ Disable	Extruder	after Job/1	Ki 11		🗹 Di	zabl	le Heated Bed	l aft	er Job/Kill
🗸 Disable	Motors af	ter Job/Kil	1		🗹 Pr	inte	er has SD car	-d	
Add to comp			or)	[%] -Axis]Y-Axi	5	🗌 Z-Axis		flip X and Y
				[01	K	Appl	v	Cancel

(Picture 8-8)

c. Extruder dialog (Picture 8-9):

Printer Setting	5				
Printer:	Geeetecl	h A10	-	-	
Connection	Printer	Extruder	Printer Shape Scripts	Advanced	
Number of Number of Max. Extr Max. Bed Max. Volu	Fans: uder Tempe Temperatur me per see	erature: re: cond	1	-	
-Extruder 1 Name: Diameter: Color:	0.4		[mm] Temperature Offset:	0	[° c]
Offset X:	0		Offset Y:	0	[mm]
			- -		
			OK	Apply	Cancel

(Picture 8-9)

d. Printer shape dialog (Picture 8-10):



Printer Settings				
Printer: Geeete	ch A10	· 💼		
Connection Printer	Extruder Printer	Shape Scripts Advanced		
Printer Type: C	Lassic Printer	•	*	
Home X: O	Home Y: O	Home Z: O		
X Min 0	X Max 220	Bed Left: 0		
Y Min O	¥ Мах 220	Bed Front: 0		
Print Area Width:	220	mm	E	
Print Area Depth:	220	mm		
Print Area Height:	260	mm		
left/front define th changing the min/max the print bed, if su	e coordinates where values you can even	tside the print bed. Bed the printbed itself starts. By move the origin in the center of		
_			-	
		OK Apply Cance	1	

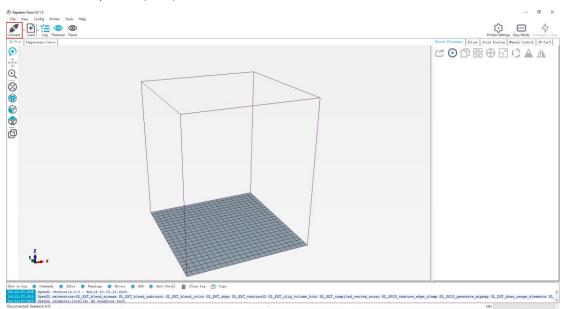
(Picture 8-10)

Now the printer parameters are set.

Note: If the operating system is Mac OS, Repetier Host baud rate is also set to 250,000.

Set slicing parameters

After setting the printer parameters, click **"Connect"** on the top left corner. The color of the icon changed to green means the printer connects to the Repetier-Host successfully. Click it again to **disconnect**. See picture (8-11).



(Picture 8-11)

After successfully connected, choose "Slicer> CuraEngine" and open the configuration menu. See



picture (8-12).

Object Placement	Slicer Print Preview	Manual Control SD Card			
Slice with CuraEngine					
Slicer: CuraEn	ngine	• 💮 Manager			
1 Print Settings:		Configuration			
		2			
Print Configurati		Ţ			
Adhesion Type:	None	•			
Quality:	0.2 mm	•			
Support Type:	None	•			
Speed:	Slow Print Speed: Outer Perimeter Speed: Infill Speed:	Fast 45 mm/s 38 mm/s 71 mm/s			
Infill Density	O	20%			
🗹 Enable Cooling	5				
Filament Settings	:				
Extruder 1:	Default	•			
	ate, external program develope is://www.ultimaker.com	d by David Braam. For more			

(Picture 8-12)

It pops up dialog as picture below (8-13):

Repetier Host V2.1.3	- a x
File View Config Printer Tools Help	
Connet Load Log Flammet Tevel	Printer Settings Easy Mode Emergency Stop
39 Pier Tangersture Curve Curve	Object Placement Slicer Print Preview Manual Control SD Card
CuraEngine Settings	
Print Filment	Slice with CuraEngine
Befeult · C Sore at) 🚖 Delete	Slicer: CureInrine · 🕞 Numerer
C lapert C Apert	
Speed and Quality Structures Internation O-Codes Advanced	Print Settings:
Speed	Print Configuration: efwelt
Size Fat 0 60 (au/s)	Adhesion Type: Hone -
Travel: 150 [50 [sa/s]	Quality: 0.2 mm -
Pirst Low: 30 30 (se/s) Outer Perimeter 30 60 [sm/s]	Support Type: Mone .
Outer Pariater 50 60 [ss/z] Datar Terister 60 [ss/z] 1	
Inder for instance 60 00 08/51 Tafill: 60 100 [me/a]	Speed: Test
Stin Infill: 30 60 [m/d]	Print Speed: 45 mm/s Outer Farimeter Speed: 30 mm/s
Quality	Infill Speed: 71 ms/s 20%
Pefeult Guality: 0,2 as	Inable Cooling
D 2 mm ↑ Talerted Paulity Setting Same: 0.2 mm	Filament Settings:
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Bichersentebolk Openfol rendererintel(R) ND Grathics 4400	14te

(Picture 8-13)

Printer parameters are important to print quality. Customers need to run tests to find the best parameters for their printers. Here we provide a configuration file for your reference (**"Geeetech A10 PLA high.rcp"**). You can import it according to the steps as follows. The following is an example of parameters for PLA (Picture 8-14):

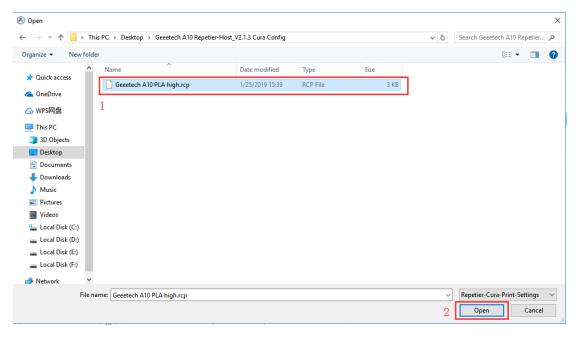
Click "Print>Import"



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Connet Log Flament Travel	Fig. Easy 4/7 Printer Settings Easy Mode Emergency	Rop
38 View Tengerature Curve Curs	Object Flacement Sliver Print Preview Manual Control 50 Card	
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Travel: 150 [80/8]	Quality: 0.2 mm	
First Laver: 30 30 [m/s]	Support Type: None .	
Outer Perimeter 30 60 [mn/x]		
Inner Perimeter 40 80 [mm/s]	Speed:	
Infill: 60 [m/s]	Slov Past	
Skin Infill: 30 60 [mm/s]	Print Speed: 45 mm/s Outer Furineter Speed: 38 mm/s	
Quality	Infill Dentity 208	
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· 2444. 0.4 MB	Filament Settings:	11
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⊙ ⊙ First Layer Extractor vieta. 100 [8]	CuraEngine is separate, external program developed by David Braam. For more informations visit https://www.ubimaker.com	
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(Picture 8-14)

It pops up the dialog as below (Picture 8-15). Choose "Geeetech A10 PLA high.rcp" and open it.



(Picture 8-15)

Now, the configuration file is imported, click "Save". See picture (8-16).

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CuraEngine Settings	Cont	Slice with CuraEngine
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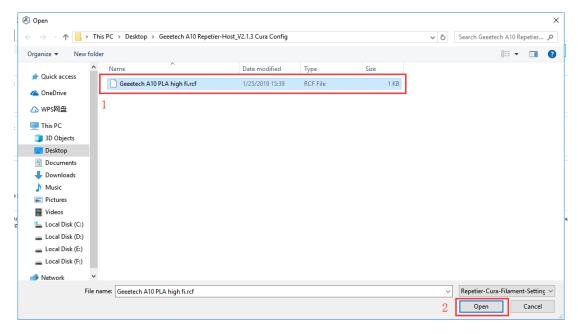


Click "Filament>Import", see picture (8-17).

-	-	
30 View Temperature Curve Curs		Object Placement Slicer Print Preview Manual Control SD Card
CuraEngine Settings	Clase	
Frint Filment		Slice with CuraEngine
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	Sapert C Expert	Slicer: Curalingine • 🕑 Manaper
Filment		Configuration ^
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Flow: [9]	2	Print Configuration: efcelt
Tesperature		Adhesion Type: None -
Print Temperature: 210 [° C]		Quality: 0.2 mm v
Bed Temperature: 80 [° C]		Support Type: None -
Cooling		
Nin. Fan. Speed: 90 [9]		Speed:
Max. Fan Speed: [100 [94]		SLov Fast Print Speed: 45 m/s Outer Farineter Speed: 38 m/s
Minisum Layer Time: 6 [s]		Outer Ferineter Speed: 38 ma/s Infill Speed: 71 ma/s
		Infill Jensity 208
CuraIngine only supports one extruder dismeter and flow value, because it assumes ide net in the start mode, so using different temperatures for different materials is n	ntical extruders. If you have a sulti-extruder setup with different values, the values from the first extruder are used for all. Frint temperatures are o problem. For cooling the highest values of all extruders are used	Inable Croling
		Filament Settings:
		Extruder 1: Defuelt *
		CuraEngine is separate, external program developed by David Braam. For more informations visit https://www.ultimaker.com
		The second s

(Picture 8-17)

It pops up dialog as below (Picture 8-18); choose "Geeetech A10 PLA high fi.rcf".



(Picture 8-18)

Now, the configuration file is imported. Click "Save". See picture (8-19).



39 Yiek Teoperature Carro Carro	Object Placement Sliver Print Preview Manual Control SD Card
CuraEngine Settings	
Priat Filamat	Slice with CuraEngine
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	Print Configuration: efcult .
Taggestare [210] [* c]	Adhenion Type: Mene • Quality: 0.2 mm •
Del magnetare: Eve to Del (C)	Support Type: Hone -
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Nin. Fan Speed: 50 [9]	Speed: Jary Taxt
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anizaren Layer Lina. 9 (1)	Infill Density 208
Condition and y supports an attribute and flow whose because it assumes intering attracted as a valid instruction attract with different release. the values from the first extruder are used for all. Print temperatures are attained as the values of the va	Inable Cooling
	Filament Settings:
	Extroder 1: Default
	CuraEngine is separate, external program developed by David Braam. For more informations visit https://www.ultimaker.com
	internations visit https://www.utimater.com

(Picture 8-19)

Choose **"Geeetech A10 PLA high"** as print configuration and **"Geeetech A10 PLA high fi"** as printing material setting. Details see picture (8-20) below.

Object Placement	Slicer	Print Preview	Manual	. Control	SD Card	
Slice with CuraEngine						
Slicer: CuraEn	gine		•	⇔	Manager	
Print Settings:			ŵ	Configur	ation	^
Print Configurati	01. eeete	ch A10 PLA high			•	
Adhesion Type:	None		•			
Quality:	PLA hi	gh	-			
Support Type:	None		-			
Speed:	Slow Print S Outer P Infill :	erimeter Speed:		F 45 mm/s 38 mm/s 71 mm/s	ast 20%	
		0			2010	
Enable Cooling		L.				
Extruder 1:	Geeete	sh A10 PLA high	fi		•	
CuraEngine is separa informations visit http:			by David	l Braam. For	more	

(Picture 8-20)

Now parameters setting are finished.

8.3 USB printing

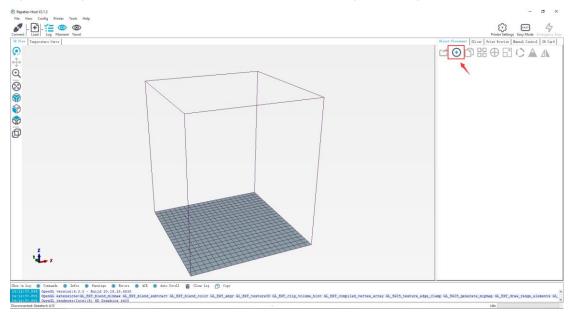
You can start USB printing when the parameters setting are finished. The model file format is .stl for 3D printer. You can download free models from websites such as



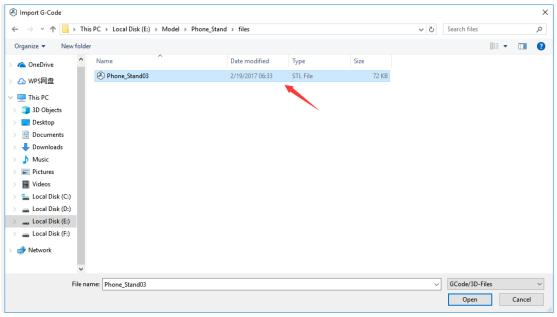
thingiverse.com You can also design your own models.

• Load the printing model

Open the Repetier-Host and click "load". Choose a file and open it. See picture (8-21, 8-22).



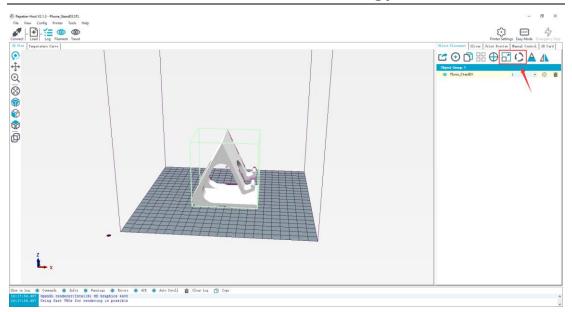
(Picture 8-21)



(Picture 8-22)

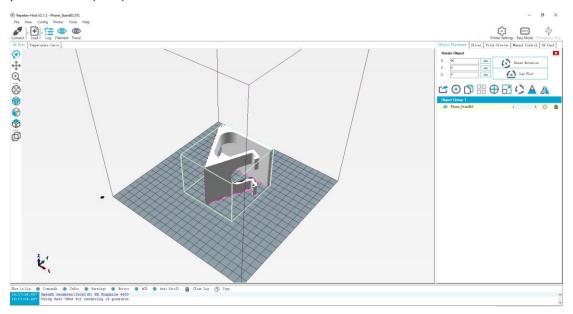
When it is loaded, you can use the buttons as picture below (picture 8-23) to zoom in, zoom out or rotate the model.





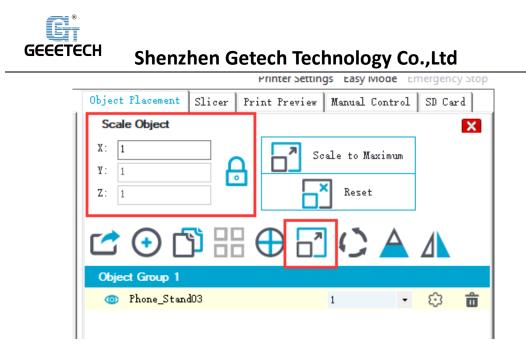
(Picture 8-23)

Adjust the direction of the model so that the flat part of the model is touching the hot bed. See picture below (8-24):



(Picture 8-24)

Note: If the model loaded is too big and beyond the printing platform, you need to zoom out the model. You can perform a uniform scaling. See picture (8-25):





Or zoom in/out them separately, see picture (8-26).

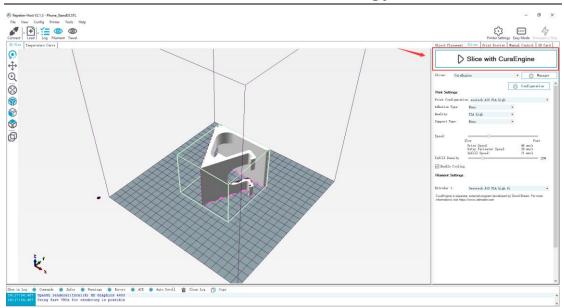
Object Placement Sli	icer Print Previe	w Manual Control	SD Car	·d
Scale Object				X
X: 0.8		Scale to Maximum		
¥: 1		_	-	
Z: 1		× Reset		
			_	
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Object Group 1				
🂿 Phone_StandO3		1 -	÷	Ô

(Picture 8-26)

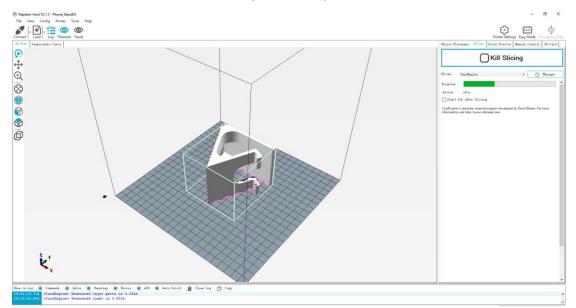
Model slicing

When the size and direction of the model are set, choose the imported slicing parameters, and click **"Slice with CuraEngine"**. See picture (8-27).



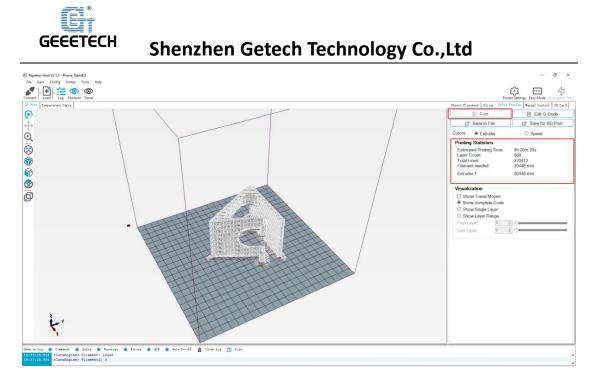


(Picture 8-27)



(Picture 8-28)

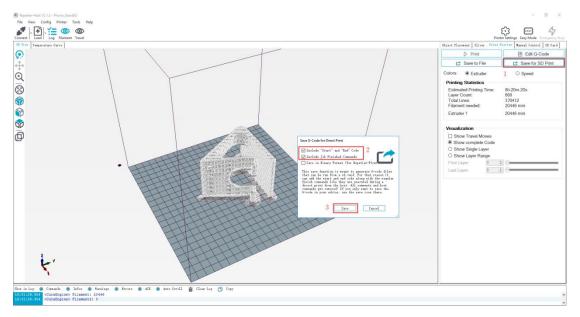
Waiting for a while after the slice is complete, you can find the model information such as estimated print time, the amount of filament needed, etc. Click **"Print"** to start USB printing. The printer will heat to the target temp and then start printing. Under high temperature, the filament will flow out of the nozzle, which is normal. You can use tweezers to clean up the residual material of the nozzle.



(Picture 8-29)

8.4 TF card printing

When all parameters are set, click **"Save for SD print"**. It will pop up a dialog as picture below (See picture 8-30) and then click the save button to generate a .Gcode file. Copy the Gcode file to the TF card.



(Picture 8-30)

Insert the TF card into the TF card slot on the front side of the machine. Press the knob to enter the main menu and choose "**Print from SD**". See picture (8-31)





(Picture 8-31)

Choose the corresponding Gcode file to start printing.

Note:

- The printer can only read gcode file and the file name should be English letters, a space, an underscore or their combination.
- The Gcode file cannot be placed in any folder of the TF card, otherwise it cannot be read.



9Function introduction

9.1 Power loss-resuming capability

In the normal printing process, such as accidental power outage, after the power is restarted, the pop-up prompt option (**Power outage**), choose **"Resume print"**. See picture (9-1).





When it reaches the target temperature, the X and Y axes will auto home. The extruder will extrude the residue in the nozzle. Use a tweezers to clean the nozzle before starting printing again.

Note:

- When power outage, move the nozzle away from the printing model in case the filament oozes out on to the print.
- Be sure to clean the residue in the nozzle before restarting the print or it would affect the quality of the print.

9.2 Reset button

The reset button is below the knob. When the printer works abnormally, press the reset button to reset the printer to avoid any damage. See picture (9-2).



(Picture 9-2)



9.3Filament run-out sensor (Optional)

Before using this function, please check whether it is turned on or not. Choose "Control">"Filament">"Runout sensors" and after entering the menu, make sure that "Runout sensors" is "On". See pictures (9-3, 9-4).

Nain Temperature Motion >Filament	Control E in mm3: Off >Runout sensors: On
(Picture 9-3)	(Picture 9-4)

- It will pop up the notification **"Err: No Filament"** when the filament is run out during printing and the printer will stop. See picture (9-5).
- Press the extruder handle, remove the remaining filament before loading the new filament.
- When the filament is loaded, use a tweezers to clean the nozzle. Press the knob to enter the main menu, and choose **"Resume print"** to re-start the printing. See picture (9-6).

8 13/0° © 23/0° ? 0 ? 0 ? 0 %100% SD% 000:00 Err:No Filament	Info screen * Prepare > Control > Resume print
---	--

(Picture 9-5)



9.4 3D touch for auto bed leveling (Optional)

This printer supports auto bed leveling. Refer to the link below to know how to install the 3d touch sensor.

https://www.youtube.com/watch?v=_RtsZDbR2po&t=66s Visit our official forum http://www.geeetech.com/forum/



10 FAQ (Frequently Asked Questions)

10.1 Abnormal extrusion

- The filament is tangled
- The nozzle temp is too low to reach the melting temperature required.
- There is carbonized residue inside the nozzle. Please replace it with the spare nozzle
- Insufficient heat dissipation of radiator of the extruder head causes the filament in the tube to melt in advance and the extrusion strength is insufficient. Please check whether the cooling fan works normally.
- The printing speed is so fast that the extruding speed can't match it. Please reduce the printing speed.

10.2The gear of the extruder skips and makes an abnormal noise

- The nozzle is clogged; please refer to **10.1 abnormal extrusions.**
- Check whether the friction force between the extruder gear and the filament is enough. Please clean the residue.
- Check whether the voltage of the driver of the extruder is normal, and try to increase it by 0.1v until it works normally, max 1.2v.

10.3 First layer abnormal

- Non-stick: a. the nozzle is too far from the hot bed. Please re-level the bed, try to stick masking paper or glue stick on the surface of the hot bed.
- Not extruding and the bed scratched: a. the nozzle is too close from the hot bed. Please re-level the bed; b. check if the nozzle extrusion normal.



10.4 Layer shift

- The printing speed is too fast. Please slow it down.
- The belt of X or Y axis is too lose. Please tighten it.
- The X or Y axis synchronization wheel is not fixed firmly. Please adjust the eccentric nuts.
- The voltage of the driver of X/Y axis is too low.

10.5 Print stopped

- USB printing: the signal is interfered. Please copy the model to TF card and print via TF card.
- TF card printing: the gcode file in the TF card is abnormal, please slice again.
- The quality of the TF card is poor. Please try another TF card.
- The power supply voltage in the area is not stable; please print after the voltage is stable.

Visit our official forum for more information: http://www.geeetech.com/forum/viewtopic.php?f=98&t=61864



11Declaration

11.1Terms

Please be advised of the following terms (the "Terms") regarding this User Manual (this "Manual"):

All information in this Manual is subject to change at any time without notice and is provided for convenience purposes only. Geeetech reserves the right to modify or revise this Manual in its sole discretion and at any time. You agree to be bound by any modifications and/or revisions. Contact the Geeetech Support Team for up-to-date information.

11.2Disclaimers

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