

User Manual for Me Creator





1. Power Supply Wiring

- 1. Take out the power supply, there is a 110V/220V switch on it. Please make sure that the switch is at the correct position according to the residential electricity standard of your country.
- 2. Loosen the screws, and connect power lines to corresponding ports in turn under the instructions of the colors of power lines and the marks on DC power supply.
- take note of the colors and their corresponding connection as a mistake can cause you harm or damage the printer. If you are unsure of your skills and abilities here, please consult a professional.

BROWN	Live (L)
BLUE	Neutral (N)
GREEN /	Ground (GND)
YELLOW	
RED	Positive (+)
BLACK	Common (COM)





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Note: Both of the power supply and LCD of Me Creator are external, and there are no installation holes set on the body of machine. Please find a flat place for the placement of your printer, LCD and power supply.

2. Software Resources

2.1Repetier host V 1.6.0

http://www.repetier.com/download-now/

2.2Arduino IDE

http://www.geeetech.com/wiki/images/a/a2/Arduino-1.0.1-windows.zip

2.3Me Creator firmware (for Sanguinololu)

http://www.geeetech.com/forum/download/file.php?id=1563

3. Install USB Driver

Connect the printer to computer with USB cable, and the computer will start installing the device driver software. After the successful installation of driver, please go to the Device manager to find the USB Serial Port. This port is the printer's communications port.

If the driver can not be automatically installed, please download the USB driver and manually install it.

http://www.ftdichip.com/Drivers/CDM/CDM%20v2.12.00%20WHQL%20Certified.exe



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4. Connect the Printer to Repetier Host

After installing Repetier Host, plug USB cable into computer and open Repetier Host.



When you start Repetier Host for the first time, you need to configure the printer parameters,



and then do the connection. Click the Printer Settings ^{Printer Settings} in the top right corner, following window will appear.



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rinter:	default				
onnection ;	Printer E	xtruder Printer Sha	ape Scripts	Advanced	
Connector:	Serial	Connection	•		Help
Port:		COM1	•		
Baud Rate:		250000	•		
Transfer H	rotocol:	Autodetect	•		
Reset on H	Imergency	Send emergency com	mmand and reco	onnect	•
Receive Ca	ache Size:	127			
Communicat	tion Timeou	ut:)	[s]		
🔲 Vse Pin	ng-Pong Cor	mmunication (Send or	ly after ok)		
The print are store printer n selected.	er setting d with eve ame and pr	s always correspond ry OK or apply. To ess apply. The new p	to the selec create a new printer start	ted printer at printer, just o s with the last	the top. They inter a new . settings

4.1 Create New Printer

In the pull-down menu at the top, it shows current selected printer. When it starts for the first time, it only has the default printer. Change the name of the printer and click Apply can create a new printer.



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There are six tags in total here. Configure relevant parameters of the printer here.

4.2Connection

Choose right Port and *Baud* Rate. For other parameters please leave them as default, and click Apply.

Port: Get the printer connected to the port of computer, which is corresponding to the USB Serial Port in the Device manager.

Baud Rate: Corresponding to the Baud Rate in firmware. Generally it is set as 250000.



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Printer: Me Cr	eator	- 8
Connection Printer	Extruder Printer Shape	Scripts Advanced
Connector: Ser	ial Connection	• Help
Port:	COM34 🗸	
Baud Rate:	250000 🗸	
Transfer Protoco	1: Autodetect 👻	
Reset on Emergen	cy Send emergency comman	nd and reconnect 🔹
Receive Cache Si	ze: 127	
Communication Ti	meout:)	[s]
📃 Use Ping-Pong	Communication (Send only	after ok)
The printer set are stored with printer name and selected.	tings always correspond to every OK or apply. To crea d press apply. The new prin	the selected printer at the top. They ate a new printer, just enter a new nter starts with the last settings

Note: If the operating system is Mac OS, please set the baud rate as 115200. Meanwhile, you need to do debugging for the motor direction of the printer again after re-uploading the firmware.

Open the firmware in Arduino 1.0.1, change the baud rate of firmware to 115200 in Configuration.h file.

After modification, re-upload the firmware. About how to burn the firmware, please refer to the FAQ.



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After successfully modifying the baud rate in firmware, modify the baud rate in Repetier-Host to 115200 as well.



4.3Printer

Set the extruder's moving speed both in horizontal direction and Z-axis direction in the Printer tab, and click Apply.

Travel Feed Rate: 4800mm/min

Z-Axis Feed Rate: 100mm/min

This is the default printing speed of Repetier-Host. You can adjust these two speeds if you need. But please note that too fast print speed will lower the print quality.

rinter:	Me Crea	tor					▼ 💼
Connection	Printer	Extruder	Print	er Shape	Scripts	Advanced	
Travel Feed	l Rate:			4800		[mm/min]	
Z-Axis Feed	d Rate:			100		[mm/min]	
Manual Extr	rusion Sp	eed:	:	2		20	[mm/s]
Manual Retr	raction S	peed:		30		[mm/s]	
Default Ext	truder Te	mperature	: 1	200		°C	
Default Hea	ated Bed '	Temperatu	re: !	55		°۲	
✓ Check E: ■ Remove Check every	xtruder & temperatu y 3 secon	. Bed Temp re reques ds.	eratur ts fro	e m Log			
✓ Check E: ✓ Check E: ✓ Check every Park Positi	xtruder & temperatu y 3 secon ion: X:	. Bed Temp re reques ds. O	eratur ts fro Y:	e m Log O	Zmi	n: 0	[mm]
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4.4Extruder

Number of the extruder: 1

Diameter of extruder 1: 0.3

nnection Printer Extruder Printer Shape Scripts Advanced Number of Extruder: 1 Max. Extruder Temperature: 280 Max. Bed Temperature: 120 Max. Volume per second 12 [mm ³ /s] Printer has a Mixing Extruder (one nozzle for all colors) Extruder 1 Name: 0.3 [mm] Temperature Offset: 0 [° C] Color: 0 Offset Y: 0 [mm]	nnection Printer Extruder Printer Shape Scripts Advanced Number of Extruder: 1 Max. Extruder Temperature: 280 Max. Bed Temperature: 120 Max. Volume per second 12 [mm ³ /s] Printer has a Mixing Extruder (one nozzle for all colors) Extruder 1 Name: 0.3 [mm] Temperature Offset: 0 [° C] Color: 0 0ffset Y: 0 [mm]	Image: Display and the image is a marked in the imarked in the image is a marked in t	inter:	Me Creator		•	畲
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4.5 Printer shape

Printer type: classical printer

Home X: Min

Home Y: Max

Home Z: Min

X Min: 0 X Max: 150 Bed Left: 0

Y Min: 0 Y Max: 150 Bed Front: 0

Printing zone: 150 x 150 x 150 (length/width/height)

Printer Settings	Annual Proof Prove	-	
Printer: Me cr	eator	▼ 💼	
Connection Printer	Extruder Printe	er Shape Scripts Advanced	
Printer Type:	Classic Printer	•	<u>^</u>
Home X: Min	➡ Home Y:	Max 🔻 Home Z: Min 👻	
X Min O	X Max 150	Bed Left: 0	
Y Min O	Y Max 150	Bed Front: O	
Print Area Width:	150	mm	=
Print Area Depth:	150	mm	
Print Area Height:	150	mm	
Left/front define changing the min/m the print bed, if	the coordinates wh ax values you can supported by firmw:	are the printbed itself starts. By even move the origin in the center of are.	
		E OK Apply Ca	Ŧ



After setting, click the Connect

button in the top left corner of Home Page. When the button





turns green and changes into Disconnect, the printer connection is successful.

5. Function Test

The uploaded firmware of Me Creator before delivery is based om Windows operating system, and we have done debugging on it to make sure that every part of it can work normally. However, there may be abnormal circumstances because of the process of transportation or other unpredictable factors. Please do simple test before using it.

5.1 Use Repetier-Host to Test

5.1.1 Motor's running direction test

Before the test, manually set the motors of X / Y / Z axis at the intermediate position of each axis in order to avoid accidental collision occurring during the test. There is emergency stop button in the



top right corner ^{Emergency Stop}, or you can cut off the power. Be prepared for emergency stop. Open Repetier host and connect the printer. Click Home button , then three axes will move towards the endstop. After they touching the endstop they will move back for a short distance and then stop the movement. If the moving direction is reversed, you can change the direction in firmware.(please refer to FAQ)



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5.1.2 Heating function test

Click the heating button of the hot bed and the extruder . When the icon changes into

the state as shown below, it indicates the heating is ongoing.



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Meanwhile you can see the temperature at the bottom of Repetier. If the hot bed or extruder can not be heated, please refer to FAQ.

5.1.3 Extruder test

Please note: It is set in the firmware that the extruder will not work before the temperature reaches above $170 \,^{\circ}\text{C}$. Therefore, please heat the hotend above $170 \,^{\circ}\text{C}$ before testing any motor inserted in the extruder's port. Otherwise motor will not have any response.

First we raise the temperature to 200°C, then click the downward arrow and it begins extrusion.

Click the downward arrow to test if the extrusion of filament 0 is fluent or not. In order to avoid blockage, please extrude filament at 1mm or 0.1 mm. You can use one hand to hold the filament so that you can easily know the situation of motor's rotation and filament's movement.



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5.2 Use LCD for Test

5.2.1 Homing

LCD>Prepare>Auto Home

Turn on the printer, first please make a homing. If you don't make a homing, it will choose the current position as home position by default. Debugging has been done on Me Creator before its delivery, and the homing direction is toward the endstop under normal situation.





5.2.2 Heating

LCD>Prepare>Preheat PLA/Preheat ABS

Test the heating function of hotbed and extruder. Default settings are as follows:

Preheat PLA: Nozzle:180°, Bed:70°

Preheat ABS: Nozzle:230°, Bed:110°

During heating process, please observe if the extruder and hotbed are heated to the preset temperatures or not. Also note that after heating to the preset temperature, the temperature will not rise and it maintains at the preset temperature.



You can change the preset temperature by entering LCD>Control>Temperature> Preheat PLA Conf/Preheat ABS Conf. Choose Store Memory to save the current parameters in current directory.

5.2.3 Motor Direction

LCD>Prepare>Move Axis>Move Axis 10mm/ Move Axis 1mm/ Move Axis 0.1mm



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If the homing and heating tests are normal, next you need to test the running of X, Y, Z axis and extruder motor in Move Axis option. At the same time you need to observe if the running direction of the motor is correct or not. For example, the extruder involves extrusion and withdrawing. If the motor direction is opposite, the extruder can not feed normally.



X, Y axis can move at 10mm,1mm or 0.1mm.

Z axis and Extruder can only move at 1mm or 0.1mm.

For the printer, you need to check whether the extrusion is normal or not. Please set a reasonable temperature depending on the melting point of filament, then test the feeding at 1mm or 0.1mm.

- Choose CD>Control>Temperature>Nozzle to set extruder temperature.(generally it is the melting point of the filament)
- 2) When the temperature of extruder reaches the melting point of the filament, begin the extrusion at 1mm or 0.1mm. Check if the extrusion is fluent or not. If not, please refer to the FAQ.



2.2.4 Unlocking motor

After unlocking motors, each axis can be moved by hand.



6. Hotbed Leveling

Before printing, please check whether the moving path of the extruder is parallel with the hotbed or not, which is called leveling.

Coarse tuning

Adjust the trigger of the endstop of Z axis, and try your best to set the homing position of Z axis right on the hotbed.





Fine tuning

1) Make a homing for the printer.

2) Unlock the motor, manually move the extruder to the three positions of the hotbed shown in the picture. At this moment the nozzle tip is already very near to the hot bed because of previous coarse tuning.



4. Put a piece of A4 paper between the extruder and hotbed. If there is a little bit friction when you pull the paper back and forth, the distance is proper. Otherwise you need to adjust the screw in this corner of the hotbed to slightly lift or lower the hotbed.



7. Printing

7.1 Online printing

7.1.1 Import STL file

Prepare the object you want to print, and open the Object Placement. Import STL file by

clicking **G**

Please note that the print object can not exceed the printing zone.



7.1.2 Slicing Parameters Setting

Repetier-Host is bundled with two slicers: Slic3r and CuraEngine. We use slice 3r as example to introduce how to set slicing parameters of Me Creator.

Click Slicer>Configuration



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Slice	e with Slic3r		Kill Slicing
Slicer: Slic3r		•	og Manager
		🔓 Confi 👸	guration
Print Setting:	555555		•
Printer Settings:	555555		•
Filament settings:			
	Free Contraction		

Following interface of Slic3r will appear:

lie window Heip				
Print Settings Filament Setting	Printer Settings			
Me Creator	Layer height Layer height: First layer height:	0.2 0.3	mm mm or %	
Support material Speed Multiple Extruders Advanced Output options	Vertical shells Perimeters: Spiral vase:	3	(minimum)	
Notes	Horizontal shells Solid layers:	Тор: β	Bottom: 3	×
	Quality (slower slicing) Extra perimeters if needed: Avoid crossing perimeters: Detect thin walls: Detect bridging perimeters:	V V		
	Advanced			



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Set the height of layer and the first layer in Print Settings, and save the setting.

le Window Help				
rint Settings Filament Settin	gs Printer Settings			
Me Creator 🔹 🚽	Layer height			
Layers and perimeters Infill Skirt and brim	Layer height: First layer height:	0.2 0.3	mm mm or %	
📃 Support material 🕑 Speed	Vertical shells			
Multiple Extruders	Perimeters:	3	🚔 (minimum)	
Output options	Spiral vase:			
Notes	Horizontal shells			
	Solid layers:	Top: 3	Bottom: 3	×.
	Quality (slower slicing)			
	Extra perimeters if needed:			
	Avoid crossing perimeters:			
	Detect bridging perimeters:			
	Advanced			

Set filament diameter as 1.75 in Filament Settings.

Temperature setting

PLA: Extruder 190°C-210°C, hotbed 55°C-65°C

ABS: Extruder 240°C-250°C, hotbed 85°C-95°C

When you print with ABS, you are advised to use ABS glue.



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File Window Help Print Settings Filament Settings Me Creator Filament Color: Diameter: 1.75 mm
Print Settings Filament Me Creator Filament Color: Diameter: 1.75 mm
Me Creator Filament Filament Color: Diameter: 1.75
Diameter: 1.75 mm
Extrusion multiplier: 1
Temperature (°C) Extruder: First layer: 195 Other layers: 190
Bed: First layer: 65 Other layers: 60
Version 1.2.9 - Remember to check for undates at http://slic3r.org/

Set hotbed size and nozzle diameter in Printer Settings, and save the setting.

💋 Slic3r			3
File Window Help			
Print Settings Filament Set	ttings Printer Settings		
Me Creator	Size and coordinates Bed shape Bed Shape Rectangular Settings Size: x: 150 y: 150 Origin: x: 0 y: 0 API Key:		× III
	Firmware G-code flavor:	RepRap (Marlin/Sprinter/Repetier)	+
Version 120 - Remember to	a chack for undates at http://slic?r.org/	Internet for an a ferrit of the real of	



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💋 Slic3r			
File Window Help			
Print Settings Filament Settings	Printer Settings		
Me Creator 🔹 🔚 🗐	Size		
🚔 General	Nozzle diameter:	0.3	mm
🎲 Custom G-code		1	
Extruder 1	Position (for multi-extruder printe	ers)	
	Extruder offset:	x: 0 v: 0	mm
	Retraction		
	Length:	1	mm (zero to disable)
	Lift Z:	0	mm
	Speed:	20	▲ mm/s
	Extra length on restart:	0	mm
	Minimum travel after retraction:	2	mm
	Retract on layer change:		
	Wipe while retracting:		
	Retraction when tool is disabled	advanced settings	for multi-extruder setups)
	Length:	10	mm (zero to disable)

Except for above hardware parameters settings, you should also pay attention to parameters like printing speed etc. Because they are important to improving the printing quality. It needs your long-time practice and experience. Here we give you a setting for reference. Please download the ini.file

You can import it into slic3r to view it according to following steps.

Note: this slicing setting is corresponding to following parameters

Printer type: Me Creator(nozzle diameter:0.3)

Filament: PLA/1.75



Click File<Load Config to import the Me Creator.ini slicing setting De Creator.ini

Window Help				
Load Config	Printer SCtrl+Ls			
Export Config Load Config Bundle	Ctrl+E Layer height			
Export Config Bundle	Layer height:	0.2	mm	
Quick Slice	First laver height: Ctrl+U	0.3	mm or %	
Quick Slice and Save As	Ctrl+Alt+U			
Repeat Last Quick Slice	Ctrl+Shift+U			
Slice to SVG	Perim Ctrl+G	3	(minimum)	
Repair STL file	Spiral vase:			
Preferences	Ctrl+, Horizontal shells			
Quit	- 11 I I	T		
	Solid layers:	Top: 3	Bottom: 3	×
	Quality (slower slicing)			
	Extra perimeters if needed:			
	Avoid crossing perimeters:			
	Detect thin walls:			
	Detect bridging perimeters:	\checkmark		
	Advanced			

1织▼ 新建文件夹				= •	0
🔓 收藏夹	名称	修改日期	类型	大小	
🚺 下载	ABS_single.ini	2015-08-26 8:50	配置设置	4 KB	
三 桌面	🗿 config.ini	2015-08-13 14:05	配置设置	4 KB	
□ 最近访问的位置	Delta_2E.ini	2015-08-29 10:20	配置设置	5 KB	
And street to street	🗿 double.ini	2015-08-19 10:32	配置设置	4 KB	
	🗿 double_abs.ini	2015-11-23 16:30	配置设置	4 KB	
	🖉 Me Creator.ini	2015-12-01 18:05	配置设置	4 KB	
□ PPIV视频	🗿 single.ini	2015-09-04 9:09	配置设置	4 KB	
 Subversion 最风影视库 ● 视频 	single_G2PRO.ini	2015-10-24 12:02	配置设置	5 KB	
■ 图片 〕 文档					

Click save in Printer Settings tab.



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Print Settings Filament Settings Print	inter Settings			
Me Creator	Vertical shells Perimeters: Spiral vase: Horizontal shells	3	(minimum)	
Output options	Quality (slower slicing) Extra perimeters if needed: Avoid crossing perimeters: Detect thin walls: Detect bridging perimeters:	V V V	Bottom: 3	E
	Advanced Seam position: External perimeters first:	Aligned •		

Click save in Filament Settings tab.

File Window Help Print Settings Filament Image: Cooling Filament Color: Image: Cooling Diameter: 1.75 Extrusion multiplier: 1 Temperature (°C) Extruder: Extruder: First layer: Bed: First layer: 65 Other layers: 60 Image: Cooling	💋 Slic3r				
Print Settings Filament Settings Me Creator Filament Color: Diameter: Diameter: 1.75 Extrusion multiplier: 1 Temperature (°C) Extruder: Extruder: First layer: Bed: First layer: 0ther layers: 100	File Window Help				
Me Creator Filament Color: Diameter: Diameter: 1.75 Extrusion multiplier: 1 Temperature (°C) Extruder: Extruder: First layer: Bed: First layer: 000000000000000000000000000000000000	Print Settings Filament Set	ttings Printer Settings			
	Me Creator	Filament Color: Diameter: Extrusion multiplier: Temperature (°C) Extruder: Bed:	1.75 1 First layer: 195 First layer: 65	mm Tother layer Tother layer Tother layer	s: 190 × s: 60 ×
		•	III		•



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Click save in Printer Settings tab.

Slic3r		
File Window Help		
Print Settings Filament Setting	gs Printer Settings	
Me Creator 🔹 🔚	Size and coordinates	
➡ General ಘ Custom G-code ♥ Extruder 1	Bed shape:	ين المراجع (المراجع المراجع الم
	Z offset:	0 mm
	Capabilities	
	Extruders:	1
	OctoPrint upload	
	Host or IP:	GBrowse
	API Key:	
	Firmware	
	G-code flavor:	RepRap (Marlin/Sprinter/Repetier) 🔻

After saving, return back to Slicer tab. Choose Me Creator slicing setting in the pull-down menu of

Print Settings/Printer Settings/Filament Settings.

Slic Slic	e with Slic3r	Kill Slicing
Slicer: Slic3r		▼ @Manager
Print Setting:	Me Creator	Configuración
Printer Settings:	Me Creator	-
Filament settings:		



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Click Slice with Slic3r to start slicing.

Object Placement	Slicer	Print	Preview	Manual	Control	SD Card	
Slick	e wi	th S	lic3r		к	ill Slicir	ŋ
Slicer: Slic3:	r			,		Manager	
Progress 🗾							
Action Expo	orting G- er slici	code to ng is f	o composi Einished	tion.gco	ode		
Slic3r is separate, ex informations, please	ternal prog visit the fo	pram, whi llowing w	ich <mark>can be</mark> vebpage: h	started sep http://www.	parately. F slic3r.org	or further	

Slicing is over, and click Print to begin printing.

ect Placement	Slicer H	Print Pre	view	Manual Control	SD Card
Pri	nt			Edit G-C	ode
Save t	o File			Save for SI	D Print
Printing Stat	istics				
Estimated Pr	rinting Ti	me:	2h:	4m:22s	
Layer Count:			254	4	
Total Lines:			310	080	
Filament nee	ded:		333	36 mm	
Visualization	1				
Show Tra	vel Mov	es			
Show con	n <mark>plet</mark> e C	ode			
Show Sin	gle Laye	r			
Show Lay	er Rang	e			
First Layer:	0)—		
		141	n		

7.2 Stand-alone printing

If you want to print by using the SD card, you can save the .gcode file in SD card for printing.



Note: The printer only recognizes .gcode file, and the file can not be placed in any folder!

Steps are as follows:

Click Save for SD Print, and choose the save button in the dialog box.



Choose a save path, and generate g.code file which can be used for SD card printing.



Insert the SD card into the printer, and choose the corresponding .gcode to print.

Press the knob on LCD, rotate the knob to enter the main menu and choose Print from SD option.



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Choose corresponding .gcode file to begin printing.



Heating



When heating is completed, it begins printing automatically.



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8.FAQ

8.1 How to burn firmware?

Me Creator uses Sanguinololu motherboard.

Download Me Creator firmware

http://www.geeetech.com/forum/download/file.php?id=1563

For burning process please refer to the following link

http://www.geeetech.com/forum/viewtopic.php?f=20&t=16433

8.2 The hotbed or extruder can not be heated.

http://www.geeetech.com/forum/viewtopic.php?f=13&t=17117

8.3 Modifying motor direction

http://www.geeetech.com/forum/viewtopic.php?f=13&t=17037