# MALYAN

MA10 3D Printer

User's Manual

## CONTENTS

SAFETY WARNINGS AND GUIDELINES	3
INTRODUCTION	4
PACKAGE CONTENTS	4
PRODUCT OVERVIEW	5
USING THE MENU SYSTEM	5
Installation	6
SETUP	7
SOFTWARE INSTALLATION AND SETUP	. 10
Installing Cura for Windows	. 10
Repetier-Host	. 13
FCC Notice	. 15

## SAFETY WARNINGS AND GUIDELINES

- Be careful not to damage the PC paper on the build plate.
- Take care to avoid touching hot parts, including heat blocks, extruder nozzle, extruded filament, and the heated build plate.
- Do not wear gloves when operating or repairing to avoid entanglement.
- Keep the printer and all accessories out of reach of children.
- Do not remove or disconnect the USB cable when printing from a computer.
- Do not pull or twist the black cable at any time.
- Do not force or tear anything when during unpacking and setup. This may cause damage to the printer and/or its accessories.
- Do not reach inside the printer during operation.
- Always allow the printer and extruded filament to cool before reaching inside.
- Ensure that the printer is turned off and unplugged from its power source before making repairs or performing service.
- Do not install this device on an unstable surface where it could fall and cause either personal injury or damage to the device and/or other equipment.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Use only in a well-ventilated area. Do not use in close, confined spaces.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Unplug this device from the power source when not in use.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.

# INTRODUCTION

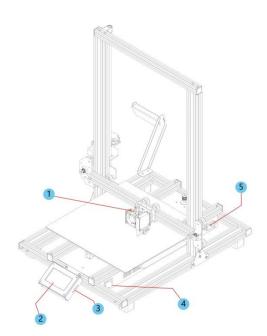
Thank you for purchasing this 3D printer from Malyan! This printer features a single extruder, which is capable of printing in PLA, ABS, and other materials. You can print from a Windows® or Mac® PC using a USB connection or can print from 3D model files stored on a memory card, without the need for a PC connection of any kind. This printer is easy to setup and easy to use following the instructions in this manual.

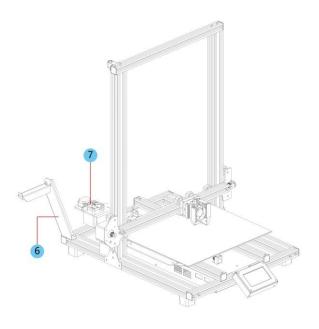
# **PACKAGE CONTENTS**

Please take an inventory of the package contents to ensure you have all the items listed below.

- 1x 3D printer
- 1x Filament rack
- 1x Plastic scraper
- 1x USB cable
- 1x Memory card
- 4x Hex wrench(2.0mm, 2.5mm, 3mm, 4.0mm)
- 5x M5\*20 Screw
- 13 xM4\*6 Screw
- 1x Open-end Wrench(8mm)
- 1x AC power cord

### **PRODUCT OVERVIEW**





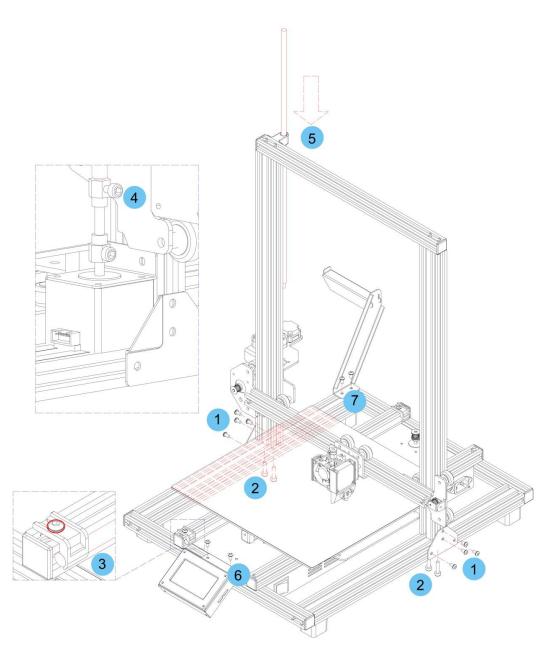
- 1. Extruder
- 2. LCD Screen
- 3. Micro USB and Micro SD Ports
- 4. Power Switch

- 5. Input Power Jack
- 6. Filament Rack
- 7. Feed Mechanism

#### **USING THE MENU SYSTEM**

- Rotating the control wheel counterclockwise moves the highlight/pointer to the up.
- Rotating the control wheel clockwise moves the highlight/pointer to the down.
- Rotating the control wheel counterclockwise while editing a value decreases that value.
- Rotating the control wheel clockwise while editing a value increases that value.
- Press the center of the control wheel to activate the selected menu item or to save an edited value.

### Installation



- 1. Use 4.0mm Hex Wrench and 8 pieces M4\*6 screw to fix two metal frame on the each side of the printer.(4 pieces of each side)
- 2. Use the 2.5mm Hex wrench to lock the 4 pieces M5\*20 screw on the bottom of the base.(2 pieces of each side)
- 3. Loosen the screw marked with red circle by a 2.5mm Hex wrench and remove the screw rod, then tighten the screw again.
- 4. Use the 3mm Hex wrench to loosen the screw on the top side.
- 5. Put the screw rod into the hole on the top of the printer, then tighten the screw on step 4.
- 6. Use the 2.5mm Hex Wrench and 2 pieces M4\*6 screw to fix the LCD module on the printer, and insert the plug into the back of the LCD module.
- 7. Use the 2.5mm Hex Wrench to fix the filament rack by 2 pieces M4\*6 screw.

### SETUP

Perform the following steps to prepare the printer for use.

- 1. Put the printer on a flat, stable surface with plenty of ventilation and a nearby AC power outlet.
- 2. Ensure that the power switch is in the OFF position. Plug the included AC Power Cable into power jack on the right side of the printer, then plug the other end into a nearby AC power outlet.
- Power on the printer and insert the included memory card into the slot on the right side of the LCD module, the main menu will display on the screen.
- Press the center of control wheel and the contents as the following picture will display on the screen. Please rotating the control wheel clockwise to choose the Change SD card if No SD card show on the screen instead of Print from SD.
- 5. Rotating the control wheel clockwise to move the highlight to **Prepare**, press the center of control wheel to enter the menu.
- 6. Rotating the control wheel clockwise to move the highlight to **Auto home**, the printer will move the extruder to the home position automatically. Check the distance between nozzle and platform, if it is incorrect, please rotating the screw on the bottom of four corners of the platform to adjust the height of platform.
- Rotating the control wheel counterclockwise to move the highlight to Main, press the center of the control wheel to back to the previous menu. Rotating the control wheel clockwise to move the highlight to the Control and press the center of the control wheel to enter the menu.
- 8. Rotating the control wheel clockwise to move the highlight to Temperature, and press the center of the control wheel to enter the menu.
- 9. Rotating the control wheel clockwise to move the highlight to Nozzle and press the center of control



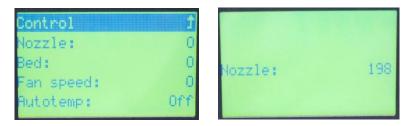
Info screen	Ť
Prepare	÷
Control	÷
Print from SD	÷
Change SD card	

Info screen	Ĵ
Prepare	÷
Control	+
Print from SD	÷
Change SD card	



Main	Ĵ
Temperature	+
Motion	+
Filament	+
LCD contrast:	36

wheel to enter the menu, Rotating the control wheel to set the temperature of the nozzle to your target value, it depends on the filament you plan to use. After you set up your target value, press the center of control wheel to save the data and exit.



- 10. Using the same procedure, set the **Bed** temperature to the target temperature for your filament type.
- 11. Rotating the control wheel counterclockwise to move the highlight to Control, press the center of control wheel to back to the previous menu.
- 12. While the printer is heating, open your filament. Using a pair of scissors or side cutters, diagonally snip the end of the filament to make a point, as shown in the images below.





- 13. Place the filament reel on the filament rack on the left side of the printer.
- 14. While squeezing the lever on the Feed Mechanism, insert the filament and push it into opening. Keep pushing until you feel resistance as it hits the extruder. Release the lever on the Feed Mechanism.
- 15. Rotating the control wheel clockwise to move the highlight to **Print from SD**. The printer will read the contents of the memory card and display them on screen. Rotating the control wheel to choose the file to start printing the model.



16. When the printing is in progress, compare the first layer with the images in the table below to determine whether the build platform needs to be leveled or not. If it does need adjustment, please rotating the screw on the bottom of four corners of the platform.

Wrong	The nozzle is too far from the platform. This can result in the extruded material not sticking to the build platform.
Correct	The nozzle is at the correct height above the platform.
Wrong	The nozzle is too close to the platform. This can result in damage to the nozzle and build platform.

# SOFTWARE INSTALLATION AND SETUP

As you've seen, you can print a model directly from a gcode file on the included memory card and this is the preferred method, as it does not require a continuous connection to your computer. You can download gcode files to the memory card and print them without having to build any model files.

However, you can create your own gcode files using an open source program, such as Cura or Repetier-Host, which are pre-installed on the memory card that comes with the printer. We recommend you start with Cura, since it includes a Slicing Engine.

#### **Installing Cura for Windows**

- 1. Use a card reader to read the contents on the included memory card. Locate and double-click the **Cura\_3.3.1.exe** file to start the setup program.
- 2. Click the Next on the widows as the picture below, then click the I Agree on the License Agreement windows.

💮 Ultimaker Cura Setup		×	🌍 Ultimaker Cura Setup		-		$\times$
	Welcome to the Ultimaker Cura Setup Wizard		6	License Agreement Please review the license terms b Cura.	efore installin	g Ultimaker	ŗ
	This wizard will guide you through the installation of Ultimaker Cura. It is recommended that you close all other applications before starting Setup. This will make it possible to updat relevant system files without having to reboot your computer. Click Next to continue.	e	Copyright (C) 2007 Free S Everyone is permitted to cr of this license document, b This version of the GNU Le the terms and conditions of License, supplemented by t	UBLIC LICENSE 29 June 2007 oftware Foundation, Inc. < <u>http://fsi</u> opy and distribute verbatim copies out changing it is not allowed. esser General Public License incorpre f version 3 of the GNU General Publi the additional permissions listed beli he agreement, click I Agree to conti	orates c ow.	t accept the	~ ~
	Next > Cance	el	Nullsoft Install System v2.51 —	< Back	I Agree	Can	cel

3. You need to choose a new location for the program files or accept the default (recommended). Click **Next** to continue.

	er in which to ins		
ura in the follow	ing folder. To ins		
		tall in a differer	t folder, click
		Bro	owse
			Bro

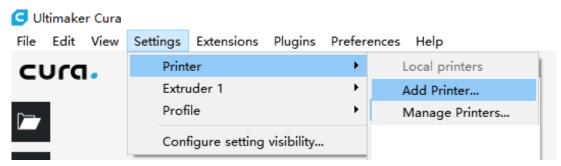
4. Ensure that all boxes are checked, then click **Install** to continue.

Image: Witimaker Cura Setup       -       -       X         Image: Witimaker Cura Setup       Choose Components Choose which features of Ultimaker Cura you want to install.       X	Installing       Please wait while Ultimaker Cura is being installed.
Check the components you want to install and uncheck the components you don't want to install. Click Install to start the installation.	Extract: qoffscreen.dll
Select components to install: Ultimaker Cura Executable and Data Files Finstall Arduino Drivers Finstall Visual Studio 2015 Redistributable Files with Cura Open OB3 files with Cura Files with Cura Files with Cura	
Space required: 398.6MB	
Nullsoft Install System v2.51 Sack Install Cancel	Nullsoft Install System v2.51 < Back Next > Cancel

5. Click **Finish** to complete the installation and launch the program.

🌍 Ultimaker Cura Setup	- 🗆 X
	Completing the Ultimaker Cura Setup Wizard
	Ultimaker Cura has been installed on your computer.
	Click Finish to close this wizard.
	ि Run Ultimaker Cura
	< Back Finish Cancel

6. Run the Cura, click **Settings > Printer>Add Printer**.



7. Click the **Other** option, then choose the Malyan MA10, then click the "Add Printer" button to continue.

Add Printer	×
🔿 Malyan M180	^
O Malyan M200	
🔘 Mankati Fullscale XT Plus	
🔘 Mendel90	
Malyan MA10	
🔘 Malyan MA10 Mini	
O Monoprice Select Mini V1	
O Monoprice Select Mini V2 (E3D)	
O Peopoly Moai	
O Printrbot Play	
O Printrbot Play (Heated Bed)	
O Printrbot Simple	
O Printrbot Simple Maker's Kit (1405)	
O Printrbot Simple Metal Extended	
O Prusa i3	
O Prusa i3 Mk2	
O Prusa i3 xl	
O Punchtec Connect XL	
🔘 Raise3D N2 Dual	
🔘 Raise3D N2 Plus Dual	
🔘 Raise3D N2 Plus Single	
🔘 Raise3D N2 Single	
O Renkforce RF100	
○ Rigid3D	
🔘 Rigid3D 3rdGen	
O Rigid3D Hobby	
O Rizidan Mucit	Ý
inter Name: Malvan MA10	Add Printer

8. The detail of Machine Settings will show on the screen, click the Close. Then you can use the Cura to print the model.

achine Sett:	Ings				
Printer Extruder					
Printer Settings			Printhead Settings		
(Width)	300	mm	X min	20	mm
(Depth)	300	mm	Y min	10	mm
(Height)	400	mm	X max	10	mm
			Y max	10	mm
Build plate shape	Rectangular	•	Gantry height	99999999999	mm
☑ Heated bed →code flavor	Marlin	•	End G-code		
Heated bed Foode flavor Start G-code		•	End G-code		
Heated bed Foode flavor Start G-code G21; (metric values)		•	End G-code G0 X0 Y200; (Stick		
<ul> <li>✓ Heated bed</li> <li>→ code flavor</li> <li>Start G-code</li> <li>G21; (metric values)</li> <li>G90; (absolute posit</li> <li>M82; (set extruder t</li> </ul>	ioning) o absolute mode)	•	End G-code GO XO Y200; (Stick M190 S0; (Turn off G92 E10; (Set extru	out the part) heat bed, don't wai der to 10)	
Heated bed Heated bed Heated Flavor Start G-code G21; (metric values) G90; (absolute posit M82; (set extruder t M107; (start with th	ioning) o absolute mode) e fan off)	•	End G-code GO XO Y200; (Stick M190 S0; (Turn off G92 EL0; (Set extru G1 E7 F200; (retrac	out the part) heat bed, don't wai der to 10) t 3mm)	
Heated bed Heated bed Heated flavor Heated Geode G21; (metric values) G90; (absolute posit M82; (set extruder t M107; (start with th G28; (Home the print	ioning) o absolute mode) e fan off) er)	•	End G-code GO XO Y200; (Stick M190 S0; (Turn off G92 EL0; (Set extru G1 E7 F200; (retrac	out the part) heat bed, don't wai der to 10) t 3mm) nozzle, don't wait)	
Heated bed code flavor Start G-code G21; (metric values) G90; (absolute posit M82; (set extruder t M107; (start with th G28; (Home the print G92 E0; (Reset the e G0 Z5 E5 F500; (Move	ioning) o absolute mode) e fan off) er) xtruder to 0) up and prime the		End G-code G0 X0 Y200; (Stick M190 S0; (Turn off G92 E10; (Set extru G1 E7 F200; (retrac M104 S0; (Turn off G4 S300; (Delay 5 m M107; (Turn off par	out the part) heat bed, don't wai der to 10) t 3mm) nozzle, don't wait) inutes) t fan)	
Heated bed code flavor Start G-code G21; (metric values) G90; (absolute posit M82; (set extruder t M107; (start with th G28; (Home the print G28; (Home the print G92 E0; (Reset the e G0 Z5 E5 F500; (Move G0 X-1 Z0; (Move out	ioning) o absolute mode) e fan off) er) xtruder to 0) up and prime the side the printable	area)	End G-code G0 X0 Y200; (Stick M190 S0; (Turn off G92 E10; (Set extru G1 E7 F200; (retrac M104 S0; (Turn off G4 S300; (Delay 5 m	out the part) heat bed, don't wai der to 10) t 3mm) nozzle, don't wait) inutes) t fan)	
Heated bed Heated bed Heated bed Heated flavor Heated G21; (metric values) G90; (absolute posit M82; (set extruder t M107; (start with th G28; (Home the print G92 E0; (Reset the e G0 Z5 E5 F500; (Move G0 X-1 Z0; (Move out G1 Y60 E8 F500; (Dra	ioning) o absolute mode) e fan off) er) xtruder to 0) up and prime the side the printable w a priming/wiping	area) line to	End G-code G0 X0 Y200; (Stick M190 S0; (Turn off G92 E10; (Set extru G1 E7 F200; (retrac M104 S0; (Turn off G4 S300; (Delay 5 m M107; (Turn off par	out the part) heat bed, don't wai der to 10) t 3mm) nozzle, don't wait) inutes) t fan)	
Heated bed Heated bed Heated bed Start G-code G21; (metric values) G90; (absolute posit M82; (set extruder t M107; (start with th G28; (Home the print G92 E0; (Reset the e G0 Z5 E5 F500; (Move G0 X-1 Z0; (Move out G1 Y60 E8 F500; (Dra G1 X-1; (Move a litt G1 Y10 E16 F500; (dra	ioning) o absolute mode) e fan off) er) xtruder to 0) up and prime the side the printable w a priming/wiping le closer to the p aw more priming/wi	area) line to rint are	End G-code G0 X0 Y200; (Stick M190 S0; (Turn off G92 E10; (Set extru G1 E7 F200; (retrac M104 S0; (Turn off G4 S300; (Delay 5 m M107; (Turn off par	out the part) heat bed, don't wai der to 10) t 3mm) nozzle, don't wait) inutes) t fan)	
☐ Origin at center ☑ Heated bed 3-code flavor Start G-code G21; (metric values) G90; (absolute posit M82; (set extruder t M107; (start with th G28; (Home the print G92 E0; (Reset the e G0 X=1 Z0; (Move out G1 Y60 E8 F500; (Dra G1 X-1; (Move a litt G1 Y10 E16 F500; (dr G1 E15 F250; (Small G92 E0; (Zero the ex	ioning) o absolute mode) e fan off) er) xtruder to 0) up and prime the side the printable w a priming/wiping le closer to the p aw more priming/wi retract)	area) line to rint are	End G-code G0 X0 Y200; (Stick M190 S0; (Turn off G92 E10; (Set extru G1 E7 F200; (retrac M104 S0; (Turn off G4 S300; (Delay 5 m M107; (Turn off par	out the part) heat bed, don't wai der to 10) t 3mm) nozzle, don't wait) inutes) t fan)	

#### **Repetier-Host**

You can also install Repetier-Host from the file on the included memory card or download from the internet. The screenshots below show the proper settings to use for this printer in Repetier-Host.

Printer Settings	
Printer: default	× 💼
Connection Printer Extruder Printer Shape Scrip	pts Advanced
Travel Feed Rate: 4800	[mm/min]
Z-Axis Feed Rate: 100	[mm/min]
Manual Extrusion Speed: 2	
Manual Retraction Speed: 30	[mm/s]
Default Extruder Temperature: 200	° c
Default Heated Bed Temperature: 55	≓ ∘ c
✓ Check Extruder & Bed Temperature ☐ Remove temperature requests from Log	
Check every 3 seconds.	
	imin: 0 [mm]
	]Go to Park Position after Job/Kill ]Disable Heated Bed after Job/Kill
	Printer has SD card
Add to comp. Printing Time 8 [%]	
Invert Direction in Controls for X-Axis	☐ Y-Axis ☐ Z-Axis
	OK Apply Cancel
Luciptor Softings	
Printer Settings	
Printer: default	•
Printer: default	cripts Advanced
Printer: default	oripts Advanced
Printer: default Connection Printer Extruder Printer Shape S	oripts Advanced
Printer: default Connection Printer Extruder Printer Shape S Number of Extruder: 1	oripts Advanced
Printer: default Connection Printer Extruder Printer Shape S Number of Extruder: 1 Number of Fans: 1	oripts Advanced
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12	cripts Advanced
Printer:       default         Connection       Printer       Extruder       Printer Shape       S         Number of Extruder:       1	cripts Advanced
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       :         Number of Fans:       1       :       :         Max. Extruder Temperature:       280       :       :         Max. Bed Temperature:       110       :       :         Max. Volume per second       12       :       :         Printer has a Mixing Extruder (one nozzle for       :       :       :	cripts Advanced
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       :         Number of Fans:       1       :       :         Max. Extruder Temperature:       280       :       :         Max. Bed Temperature:       110       :       :       :         Max. Volume per second       12       :       :       :         Extruder 1       .       .       .       .       .         Name:       .       .       .       .       .	cripts Advanced [mm <sup>2</sup> /s] r all colors)
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       1         Number of Fans:       1       1       1         Max. Extruder Temperature:       280       10         Max. Bed Temperature:       110       10         Max. Volume per second       12       12         Printer has a Mixing Extruder (one nozzle for Extruder 1       1         Name:       1       1         Diameter:       0.4       [mm] Temperature	cripts Advanced [mm <sup>2</sup> /s] r all colors)
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1       Name:         Diameter:       0.4         Color:	cripts Advanced [mm <sup>1</sup> /s] r all colors) Offset: 0 [° C]
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1       Name:         Diameter:       0.4         Color:	cripts Advanced [mm <sup>7</sup> /s] r all colors) Offset: 0 [° C]
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1       Name:         Diameter:       0.4         Color:	cripts Advanced [mm <sup>1</sup> /s] r all colors) Offset: 0 [° C]
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1       Name:         Diameter:       0.4         Color:	cripts Advanced [mm <sup>1</sup> /s] r all colors) Offset: 0 [° C]
Printer:       default         Connection       Printer       Extruder         Number of Extruder:       1       1         Number of Fans:       1       1         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1         Name:	cripts Advanced [mm <sup>1</sup> /s] r all colors) Offset: 0 [° C]
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1       Name:         Diameter:       0.4         Color:	cripts Advanced [nm <sup>1</sup> /s] r all colors) Offset: 0 [° C]
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1       Name:         Diameter:       0.4         Color:	cripts Advanced [nm <sup>1</sup> /s] r all colors) Offset: 0 [° C]
Printer:       default         Connection Printer Extruder       Printer Shape S         Number of Extruder:       1       2         Number of Fans:       1       2         Max. Extruder Temperature:       280         Max. Bed Temperature:       110         Max. Volume per second       12         Printer has a Mixing Extruder (one nozzle for         Extruder 1       Name:         Diameter:       0.4         Color:	cripts Advanced [nm <sup>1</sup> /s] r all colors) Offset: 0 [° C]

Printer Setting	5						
Printer:	default				-	â	
Connection	Printer	Extruder	Printer Shap	e Scripts #	Advanced		
Printer Type:	Cla	assic Printe	r	•			^
Home X: N	lin	▪ Home Y:	Min	➡ Home Z:	Min	•	
X Min 0		X Max 30	)	Bed Left: 0	]		
Y Min 0		¥ Мах 30	)	Bed Front: C	]		
Print Area Wi	dth:	300	r	I			
Print Area De	epth:	300	1	nm			
Print Area He	eight:	400	r	nm			
				nge of extrude the print bed			
left/front de	efine the	coordinate	s where the p	rintbed itself			
the print bed	l, if sup	ported by f	irmware.				
Y Max	Ĩ⁻						
	÷		E				
*							¥
				OK	Apply	Cancel	
				OR	10014	Cancer	

# **FCC Notice**

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

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

The equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

—Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is conn ected.

-Consult the dealer or an experienced radio/TV technician for help.