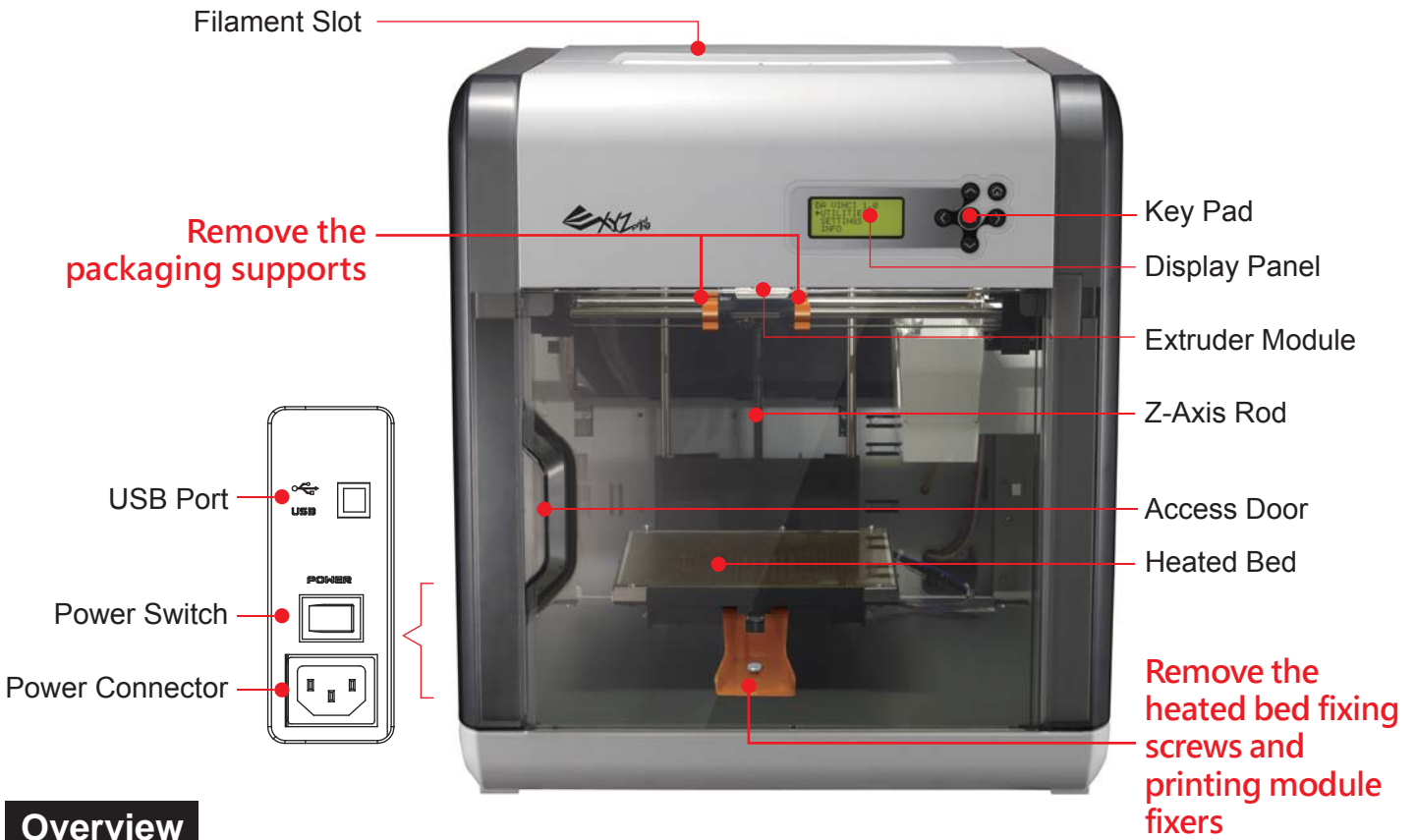




Product Manual	—————	P.2-P.4
Advanced Maintenance Tools	———	P.5
Heated Bed Adjustment	—————	P.6
Service Code Informations	———	P.7

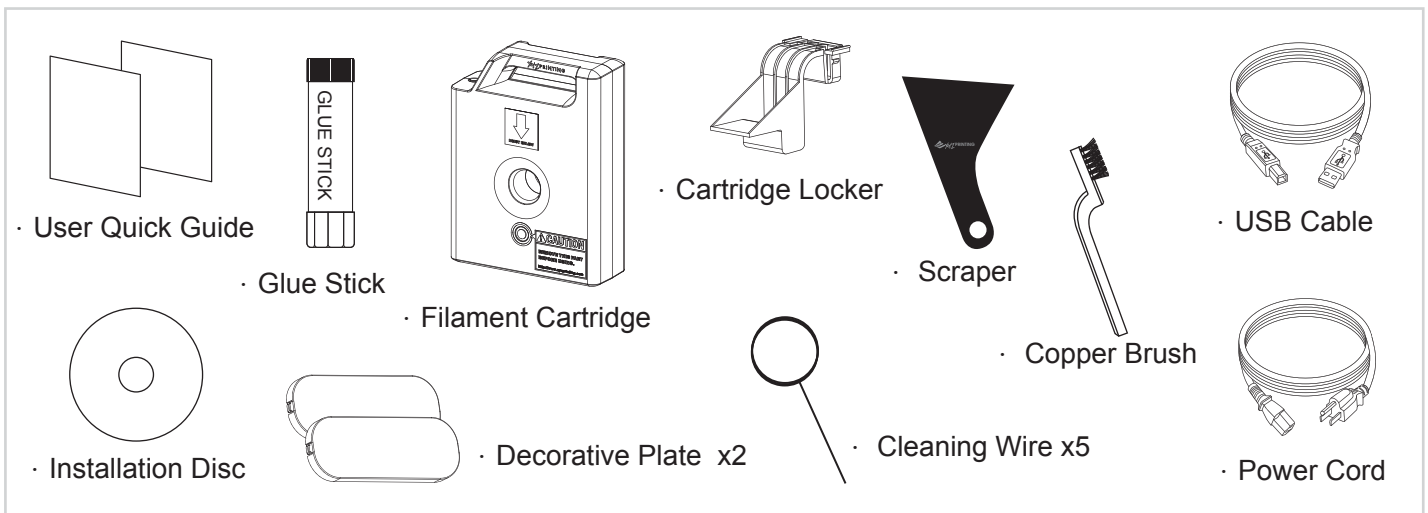




Overview

This guide provides details on how to start off your da Vinci 1.0 3D printer in the right direction. Before you can begin printing, there are some easy procedures you need to become familiar with:

- How to open the box safely
- How to load filament
- Getting to know XYZware software



Important Safety Instruction



- Do not place the printer in humid or dusty environments such as bathrooms and high traffic areas.
- Do not place the printer on a rickety surface and/or inclined position. Printer may fall down or tumble and it may cause serious injury.
- Do not reach inside the printer while in operation. Printer reaches high temperatures and includes moving parts that can cause injury.

Open the box

1 Open the box and remove the accessories and the layer of foam.

2 Take out the printer by holding the grip holds.

3 Remove plastic bag and tapes.

4 Remove the cardboard.

5 Open the top door, then remove packaging supports and tapes.

6 Remove the heated bed fixing tapes and foam.

7 Remove the screw and the plastic piece from heated bed.

8 Remove the drip tray fixing tapes.

9 Connect the printer to your PC first using a USB cable then turn on the power switch.

Load the filament

1 Please remove the filament stopper.

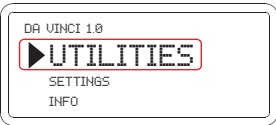
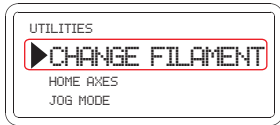
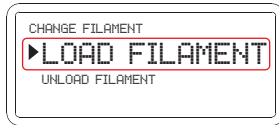
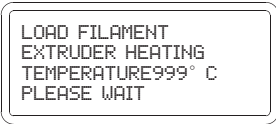
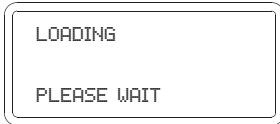
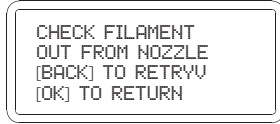
2 Install the new filament cartridge into the empty slot.

3 Place and push to click the cartridge locker into the slot.

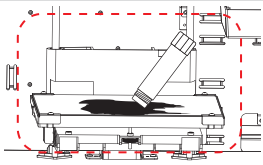
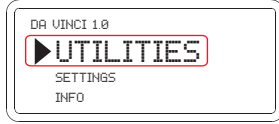
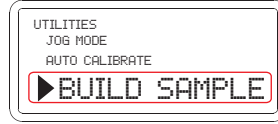
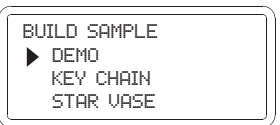
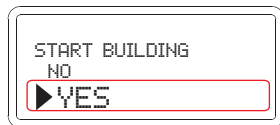
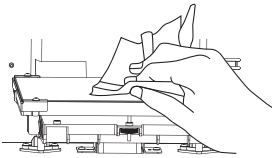
4 Push the filament through the filament guide tube to the hole of the extruder and press "LOAD FILAMENT" function on the display menu.

Tips: Pull the released arm, then load filament shall be easily.

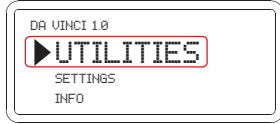
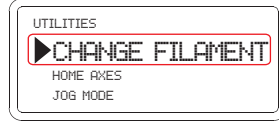
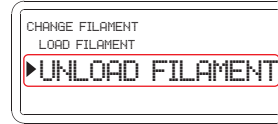
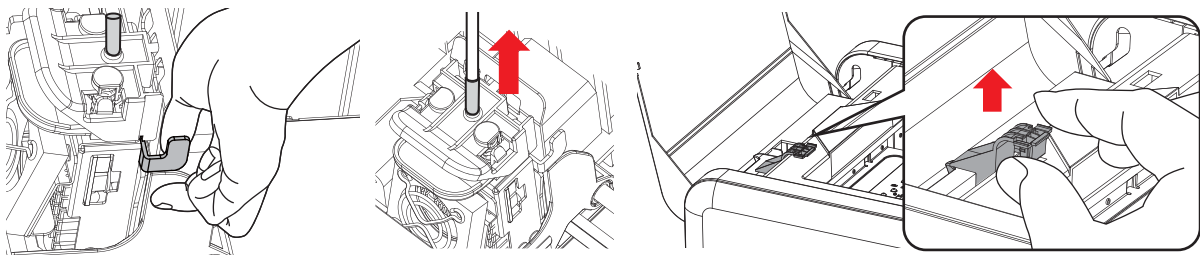
Load filament

 <p>1 Choose "UTILITIES" and press "OK" to continue.</p>	 <p>2 Choose "CHANGE FILAMENT" and press "OK".</p>	 <p>3 Choose "LOAD FILAMENT" and press "OK".</p>
 <p>4 Please wait for extruder to reach working temperature.</p>	 <p>5 Please wait for completion of filament loading.</p>	 <p>6 Check filament comes out from the nozzle and press "OK" to go back to main menu.</p>

Sample print

 <p>Before you start printing, apply the glue stick to the area of the heated bed which corresponds to the object print size.</p>	 <p>1 Choose "UTILITIES" and press "OK" to continue.</p>	 <p>2 Choose "BUILD SAMPLE" and press "OK" to continue.</p>
 <p>3 Select one of the samples.</p>	 <p>4 Select "YES" and press "OK" to start printing.</p>	 <p>5 After printing is complete, power off the printer. Once the da Vinci has cooled use a damp cloth to clean the heated bed.</p>

Unload filament

 <p>1 Choose "UTILITIES" and press "OK" to continue.</p>	 <p>2 Choose "CHANGE FILAMENT" and press "OK".</p>	 <p>3 Choose "UNLOAD FILAMENT" and press "OK".</p>
 <p>3 Upon completion of the heating of machine, please remove filament and cartridge locker.</p>		

Important Safety Instruction



The maintenance tools provided should only be handled by an adult. Please keep tools away from children. Incorrect handling or maintenance of the printer may cause damage to the product or personal injury.

Information and usage of the advanced maintenance tools



■ Scraper

Scraper remove the printed object from the heated bed after completion of printing.
(Caution: do not remove the printed object while the heated bed is hot.)



■ Cleaning Wire

To remove the small pieces of filament left from the filament path inside the nozzle. The cleaning wire can be used when an obstruction occurs in the filament path inside the nozzle or when the filament cannot be pushed out while loading the filament.

(Caution: the heated bed may be hot while cleaning the filament path, please follow the instruction to descend the heated bed position before you performing the above.)

When cleaning the printer nozzle, gears or filament path please ensure to keep hands clear of the heated bed which may be hot.



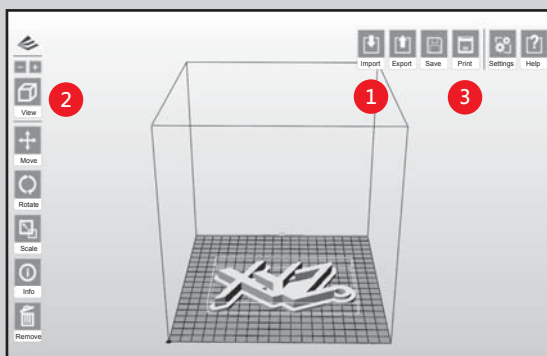
■ Copper Brush

To clean and remove the small pieces of filament left from the tip or surface of the extruder and inside the drive gear. In the event of "auto-calibration failed" after several attempts, use the copper brush to clean and remove the filament pieces from the extruder.

Specifications

FEATURES	da Vinci 1.0 3D Printer	FEATURES	da Vinci 1.0 3D Printer
Print Technology	Fused Filament Fabrication	Filament Diameter	1.75 mm
Printer Head	Single Head	Nozzle Diameter	0.4 mm
Build Volume(W x D x H)	20 x 20 x 20 cm	AC Input	100-240V, 50~60Hz
Print Speed	60, 90, 120 mm/s	Connectivity	USB 2.0 x 1
Layer Resolution Settings	Standard 200 microns	Display	FSTN LCM (16 Characters x 4)
	Speed 300 microns	Control Method	Key x 6
	Ultra fast 400 microns	Indicator	Buzzer
	Custom 100-400microns	Lighting	LED
		Weight	28.5 Kg

Know about XYZware



For Mac OS and Win8/8.1 user or software related topics, please visit following webpage for further information and download the proper XYZware version:
<http://support.xyzprinting.com/downloads>

「XYZware 1.0」 is developed by XYZprinting Inc. It is designed for everyone, with or without modeling skill. You can view the model in various perspectives by importing (*.stl) file to it. It is also used to print objects from da Vinci 3D printer. XYZware can be found in the bundle installation disc. To check our latest software updates and further information, please go to:

<http://support.xyzprinting.com/manuals>



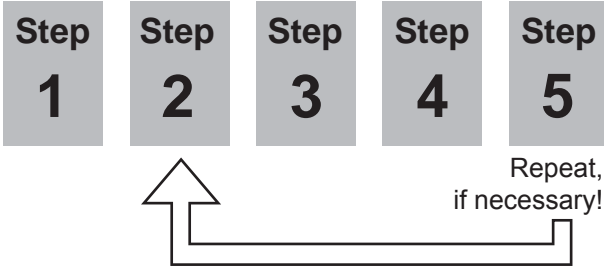
(Notice: Some instructions and video tutorials might require online registration to obtain authorization.)

Heated Bed Adjustment Instructions

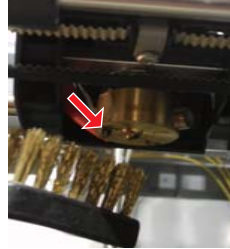


The heated print bed is pre-calibrated, please **Do NOT** make any unnecessary calibrations. Please contact service personnel or visit our website for detailed support information.

Step Chart

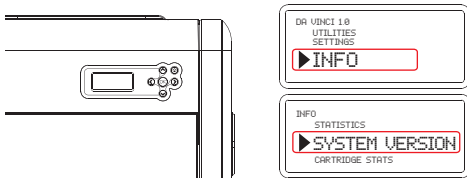


Use the function "UNLOAD FILAMENT" to make the extruder reach to working temperature and it's easier to clean by copper brush.

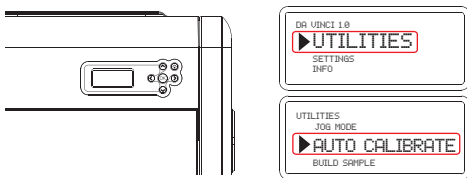


Step-by-Step

1. Choose "INFO">"SYSTEM VERSION" to know the firmware version and keep the latest one.

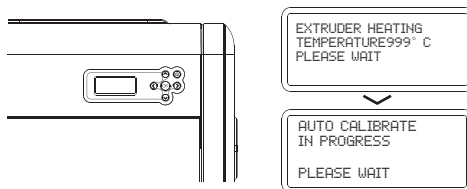


2. Choose "UTILITIES">"AUTO CALIBRATE" >"YES" to start the procedure of calibrations.

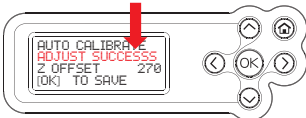


3. The printer will measure the level of heated bed automatically, and feedback data on the display after around 2 minutes.

! Note: the extruder will be heated in the process of measurement, be careful!

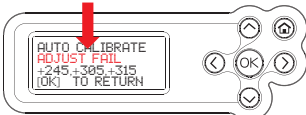


I. Show **ADJUST SUCCESS**



→Please stop and press **OK** to finish calibration

II. Show **ADJUST FAIL**

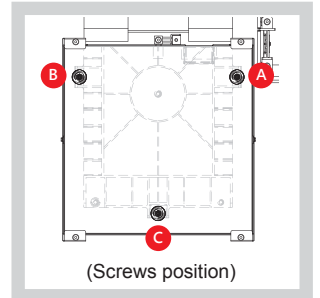
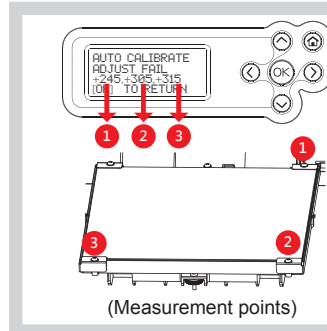


→Please refer the measured data and follow the calibration steps.

4. Please refer the measured data and follow steps for doing calibration.

○ Steps:

- I. Adjust "A" thumbscrew to make the 1st and the 2nd measured value approached.
- II. Adjust "B" thumbscrew to approach 1st, 2nd measured value if needed.
- III. Adjust "C" thumbscrew to adjust the value of 3rd, all measured values approached, the process is completed.

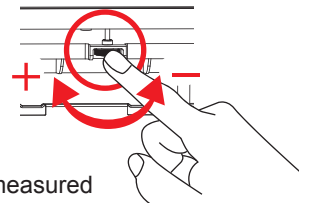


Face the front side of the printer

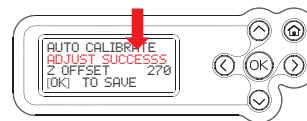
Rotation of the screw to the left
Make the heated bed raise up
(value increases)

Rotation of the screw to the right
Make the heated bed go down
(value decreases)

Moving a cycle of screw will show the measured value changed around 50 degree.



5. After this step completed, repeat the step 2 again, **ADJUST SUCCESS** will be displayed if correct, then press **OK** to complete the calibration.



※ Please Note:

If the displayed values are **999,999,999**, follow these steps to clean up.

A. Use of copper brushes to clean the surface of extruder.

(Clean the extruder pin and measurement points of heated bed)

B. Referring to Step 4, cleaning the measuring points.

C. Do the heated bed adjustment again.



Troubleshooting (Q&A)

For further information and instruction of the service code, please refer to :
<http://support.xyzprinting.com/manuals>

Service Code	Display Panel Description
0010	Extruder or heated bed higher/lower than maximum/minimum temperature during printing
0011	Extruder or heated bed cannot heat to the specified temperature
0013	The temperature of heated bed reach to warning range limited
0014	The temperature of extruder reach to warning range limited
0030	X axis motor failed results moving failed or X axis home sensor failed results home detect failed
0031	Y axis motor failed results moving failed or Y axis home sensor failed results home detect failed
0032	Z axis motor failed results moving failed or Z axis home sensor failed results home detect failed
0040	Memory storage cannot read/write
0050	Flashrom cannot read/write

Note

Please retain all original packaging material and please ship your product with the original packaging for warranty purpose. Shipping without original packaging material may cause product damaged during the shipment and may cause chargeable service fees.