da Vinci 1.0 Pro
User Manual
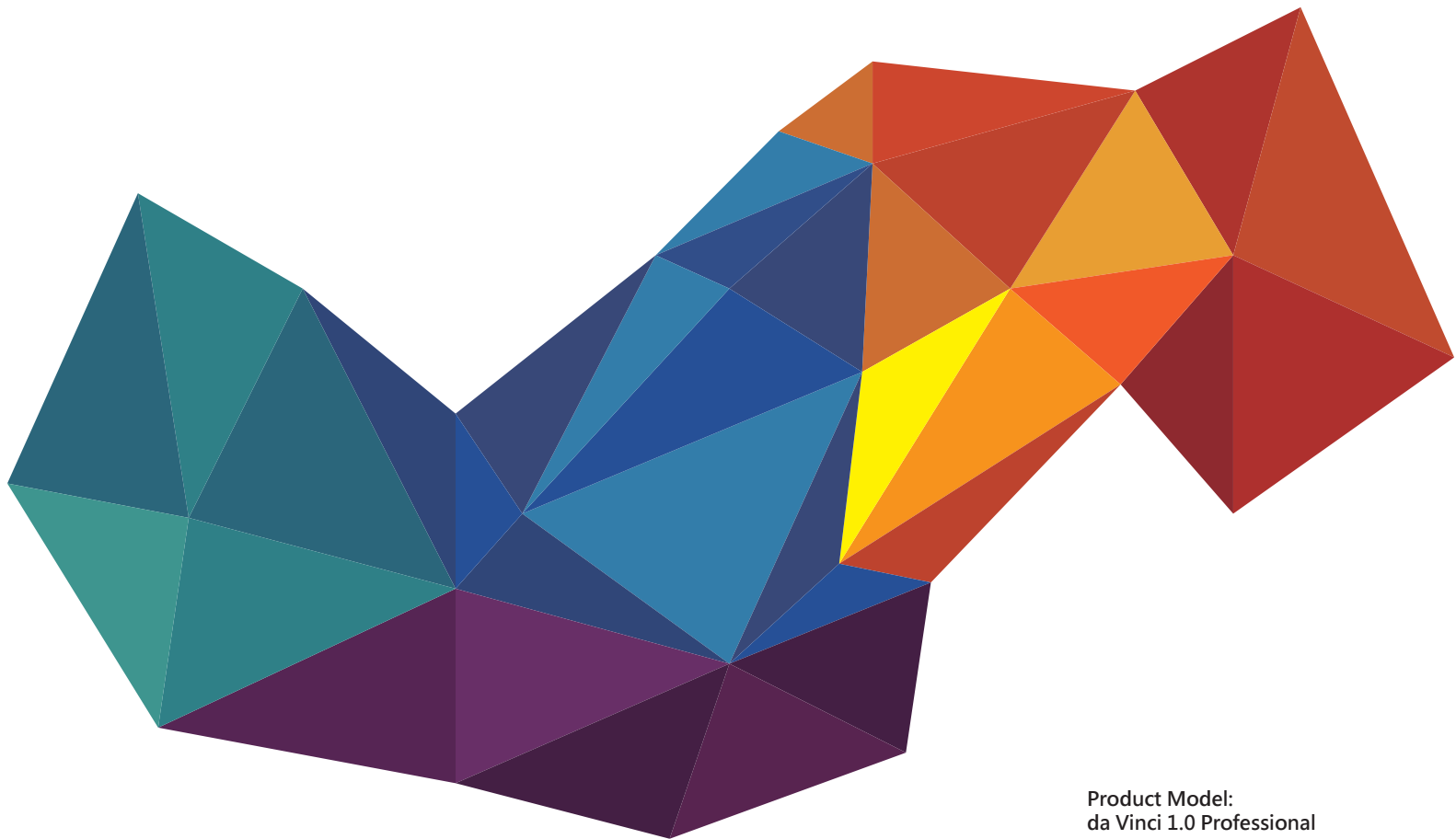
Product Model:
da Vinci 1.0 Professional

The purpose of this user manual is to help users understand and use the da Vinci 1.0 Professional 3D printer correctly. It contains the operating instructions, maintenance information and application skills of the da Vinci 1.0 Professional 3D printer.

For the latest information about da Vinci 1.0 Professional 3D printer and XYZprinting products, please contact your sales representative or visit XYZprinting website: http://www.xyzprinting.com

Product Safety

● Safety and Compliance

Before you use, operate the product, change or remove any parts, components or materials of the product, or maintain the printer, please ensure that you carefully read this User Manual and the safety instructions described below, and strictly follow the instructions of such safety information.

The following warnings and attention notices are a best effort attempt to cover all scenarios; unfortunately it is not possible to do so in the case of performing maintenance procedures that are not described in this manual the burden of safety falls to the customer side.

● Important Safety Information

- Do not place the printer in humid or dusty environment such as bathrooms and high traffic areas.
- Do not place the printer on an unbalanced or unstable surface. Printer may fall or tumble causing harm and /or injury.
- Do not let children operate this device without adult supervision. Moving parts can cause serious injury.
- Please use the grounded power cord supplied with the printer to prevent a possible electrical shock.
- Insert and secure the power cord firmly for proper usage and to avoid potential electricity and fire dangers.
- Do not disassemble or replace the printer cover with none XYZprinting covers.
- Do not place any objects on top of the printer. Liquids and objects that fall into the printer can lead to printer damage or safety risks.
- Do not use flammable chemicals or alcohol wipes to clean this device.
- The process of heating the filament will produce a light non-toxic odor. Having a well ventilated area will ensure a more comfortable environment.
- Make sure to set the power switch to the off position and remove the power cord before transporting the device.
- Do not touch the interior of the print while printing as it may be hot and include moving parts.
- Some components of the printer are moving during operation. Do not attempt to touch or change anything inside before power off the printer.
- Do not attempt to service the printer beyond the instructions specified in this document. In the case of irrecoverable problem, contact XYZprinting service center or your sales representative.
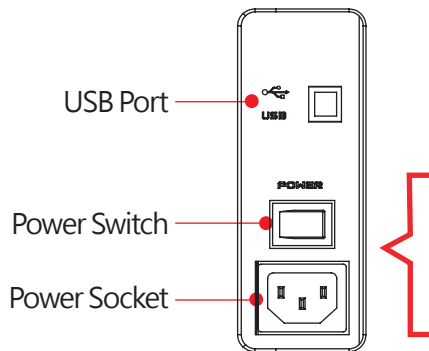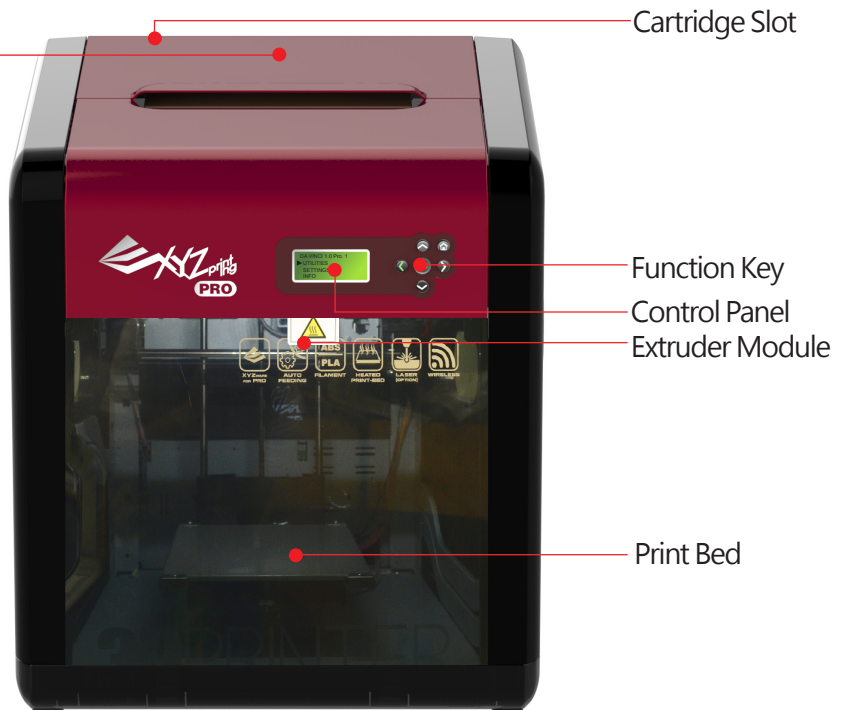
● Trademarks

All trademarks and registered trademarks are the property of their respective owners.

Product Description

Product Overview

Auto Feed System

Cartridge Slot

Function Key

Control Panel

Extruder Module

USB Port

Power Switch

Power Socket

Print Bed

⚠ Levelness of the Print Bed may be susceptible to vibration during transportation, which may influence print quality. Please adjust the bed with reference to 「Print Bed Adjustment」 before printing.

Accessory Checklist

· Quick Guide, Warranty Card

· Filament Cartridge

· Cartridge Locker

· USB Cable

Maintenance Tools

· Cleaning Brush

· Copper Brush

· Software CD

· Side Cover Plate x2

· Bed Tape X 3pcs
(The bed tape is reusable and it can be replaced when it's worn)

· Power Cord

· Cleaning wire x 5

· Scraper

Product Description

Open the box
Note: Please removal all fixed materials before turning on the printer to prevent the machine from damage

1 Open the box and remove the accessories and the cushion

2 Use the grip to take off the machine

3 Remove all fixing tapes and the packing bag

4 Open the upper cover and remove fixities listed above

Tape x2
Packing support x2
Cable tie x1

⚠ Pay attention particularly to actual paperboard removal of the fixities listed above

5 Remove 2 foams at the front of the cardboard

6 Remove the fixing styrofoam beside the bed

7 Remove fixing paperboard

8 Remove bottom screw and the fixing screw on the bottom of the bed

9 Be sure to remove the fixing foam from the axis

10 Be sure to remove the cable tie as illustrated above

11 Insert the bundled software CD into the computer and install the software according to instruction

12 Use the USB cable to connect the printer to PC. Connect the power cord to the printer then turn on the power switch

"Note: Please use the power cord provided by XYZprinting."

Important Safety Notes

⚠
- Do not use the printer in dust rich, highly humid or outdoor environments.
- Do not use the printer on a soft or tilt table to prevent the machine from falling, which may result in damage or personal injury.
- Do not put your hand into the machine during operation to avoid collision risk due to movement of the machine or to avoid burn due to high temperature.

Notes and Description for Use of Maintenance Tools

- The following tools can be used only in an environment with guidance or monitoring by adult. Do not allow children to obtain maintenance tools in unfamiliar situations in order to avoid danger.
- Please make sure to maintain the printer as the bed is cooled.

- After print is finished and the print bed is cooled to room temperature, the printing object may be taken off with Scraper.

- In order to prevent print quality from impact due to residual and accumulated filament, which results in poor discharge, after long-term use of print nozzle, it is recommended to enable the "CLEAN NOZZLE" (nozzle cleaning) function of the printer every 25 hours of print to clear residuals with nozzle cleaning wire.
- Filament residuals produced during print may also attach onto nozzle and gear of print module to influence print quality, printer operation, as well as measurement result of bed. For such situation, please use cooper brush to clean the print module.

● Maintenance and Service

Keep original packaging material in the event of sending your unit back for repair during the warranty period. If other packing materials are used instead, the print-er may be damaged during the transportation process. In such situation, the XYZprinting the right to charge repair fee.

Display and Control Panel
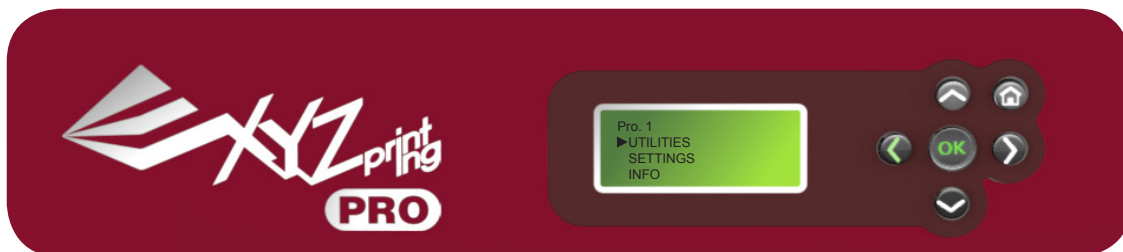
Direction Up / Decrease the value

Back to pervious menu / Adjust the value /Move to the preview item

Go to the next menu / Adjust the value /Move to the next item

Direction Down / Increase the value
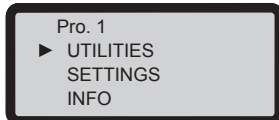
OK Select / Confirm setting / Confirm and exit

Home menu

# Printer screen menu, functions and messages

UTILITIES

Installation and removal of filament, calibration of the printing bed and printing settings, including:
◆ CHANGE CART ◆ HOME AXES ◆ Z OFFSET ◆ JOG MODE ◆ CALIBRATE ◆ BUILD SAMPLE
◆ CLEAN NOZZLE

```
        Pro. 1
   ►  UTILITIES
        SETTINGS
        INFO
```

CHANGE CART

Load, unload filament and view the information about the filament. Using XYZprinting filament to ensure smooth operation of the machine is recommended.

```
UTILITIES
►CHANGE CART
  HOME AXES
  Z OFFSET
```
```
CHANGE CARTRIDGE
►LOAD FILAMENT
  UNLOAD FILAMENT
```
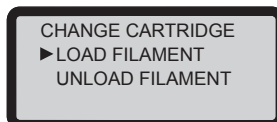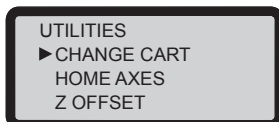
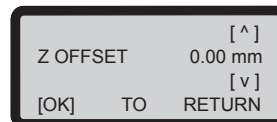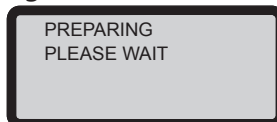Refer to P.13 for Load filament
Refer to P.14 for Unload filament

HOME AXES

Use the function to move the extruder to upper right corner of printing space and the print bed to the top.
Extruder homing:

```
UTILITIES
  CHANGE CART
►HOME AXES
  Z OFFSET
```
```
HOME AXES
ARE YOU SURE?
NO
►YES
```
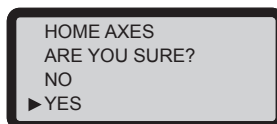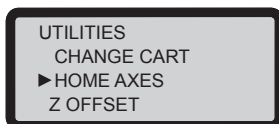
Select "YES" to return the extruder to the preset position.
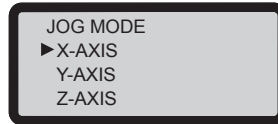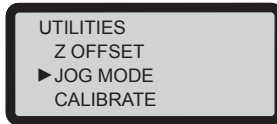
Z OFFSET

Use the function to adjust the print bed upwards and downwards, and the printing distance between the bed and printing module. The function will also record the setting value.

```
UTILITIES
  HOME AXES
►Z OFFSET
  JOG MODE
```
```
PREPARING
PLEASE WAIT
```
```
                    [ ^ ]
Z OFFSET      0.00 mm
                    [ v ]
[OK]     TO    RETURN
```

JOG MODE

Manually adjust the movement of X/Y/Z Axis for printer maintenance.
How to move the extruder:

```
UTILITIES
  Z OFFSET
▶ JOG MODE
  CALIBRATE
```

```
JOG MODE
▶ X-AXIS
  Y-AXIS
  Z-AXIS
```

```
X-AXIS [ OK ]  >> EXIT
  [ − ] ◀  [ ■001mm ]  ▶ [ + ]
              010mm
              020mm
```

① Select a target to move:
  - Select "X-AXIS" to move extruder rightwards and leftwards
  - Select "Y-AXIS" to move extruder forwards and backwards
  - Select "Z-AXIS" to move the print bed

② Adjust the distance
  - Use "UP" and "DOWN" buttons to select the moving distance. Then, select "- " based on the desired distance and press the "TO THE LEFT" button or select "+" and press the "TO THE RIGHT" button to adjust the moving distance.
  - Press the "TO THE LEFT" button: The extruder will be adjusted rightwards/backwards or closer to the print bed.
  - Press the "TO THE RIGHT" button: The extruder will be adjusted leftwards/forwards or away from the print bed.

CALIBRATE

Use the function to adjust the print bed and make adjustment based on the reference value. The printing quality will be affected by the levelness of the print bed. If you want to confirm the levelness of the print bed, turn on the function to measure and check recommended adjustment.

```
UTILITIES
  JOG MODE
▶ CALIBRATE
  BUILD SAMPLE
```

```
CALIBRATE
  ARE YOU SURE?
▶ NO
  YES
```
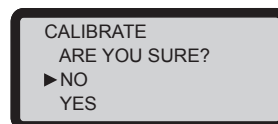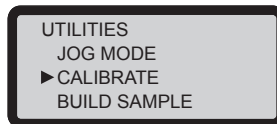
Refer to P.15 for CALIBRATE

BUILD SAMPLE

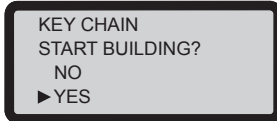3 built-in samples are stored in the printer. You can learn to use the printer through building samples.

```
UTILITIES
  CALIBRATE
▶ BUILD SAMPLE
  CHANGE NOZZLE
```
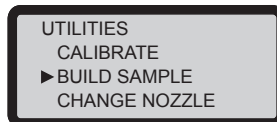
① Stick the bed tape onto the print bed before printing

(2) Select the built-in sample to be printed

```
BUILD SAMPLE
    DEMO
 ►KEY CHAIN
    HEART
```

(3) Select "YES" and press "OK"

```
KEY CHAIN
START BUILDING?
    NO
 ►YES
```
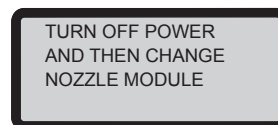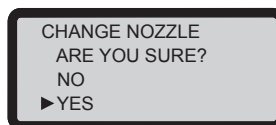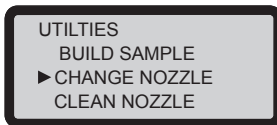
(4) After completion of print, take off the print product.The print bed patch is reusable,replace the patch when it is worn out.

Note: Stick the bed tape onto the print bed before printing or apply some glue stick on the bed tape for objects with special structures to make the tape more adhesive and the object more difficult to remove.

CHANGE NOZZLE

```
UTILTIES
    BUILD SAMPLE
 ►CHANGE NOZZLE
    CLEAN NOZZLE
```

```
CHANGE NOZZLE
    ARE YOU SURE?
    NO
 ►YES
```

```
TURN OFF POWER
AND THEN CHANGE
NOZZLE MODULE
```

Turn off the printer after the printing device and print bed automatically move to their positions and change the printing module.

⚠ Levelness of the Print Bed may be susceptible to vibration during transportation, which may influence print quality. Please adjust the bed with reference to「Print Bed Adjustment」before printing.

Printer screen menu, functions and messages

| UTILITIES |
| :--- |
| BUILD SAMPLE |
| CHANGE NOZZLE |
| ▶CLEAN NOZZLE |

Printer Maintenance
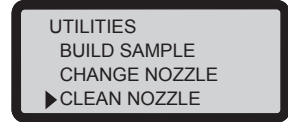
● UTILITIES > CLEAN NOZZLE

Regular cleaning of the print nozzle facilitates to not only extending service life of the printer, but also improves print quality.
Enable "CLEAN NOZZLE" (nozzle cleaning) function. Clean the nozzle after the nozzle is heated up, the bed has been lowered and the extruder has been moved to the front end, and "READY FOR CLEAN" is displayed on screen.

1

Clean the detecting pin with Copper Brush
Filament residues produced during printing may become attached to the nozzle and gear of print module to influence print quality, operation of the printer, and measurement result of the bed. If such a situation is encountered, please use a copper brush to clean the print module by brushing off residue and dirt on the detecting pin .
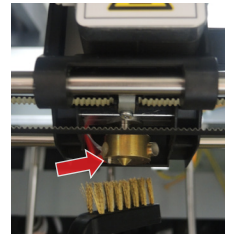
2

Clean Nozzle with Nozzle Cleaning Wire
With increased print frequency, the carbon accumulation and dirt in the nozzle might affect print quality.
Thus, we recommend you to clean nozzle for every 25 hours of print. Please clamp the nozzle cleaning wire with needle-nosed pliers to insert it into the opening of the nozzle carefully for cleaning.
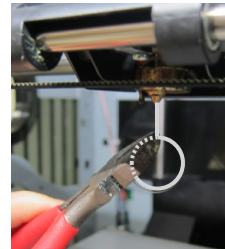
3

Wipe Measurement Points
After the bed is lowered, please switch off power to cool the bed, followed by wiping 3 measurement points with damp cloth
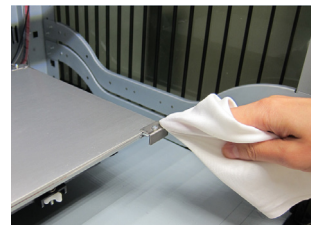
SETTINGS

The basic settings of the machine, functions, selection and adjustment of printing values, including:
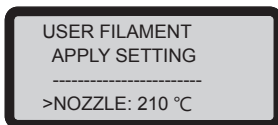
◆ USER FILAMENT   ◆ BUZZER   ◆ AUTO HEAT   ◆ LANGUAGE   ◆ ENERGY SAVE   ◆ RESTORE DEFAULT
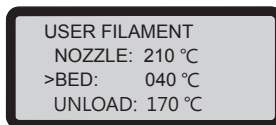
```
Pro. 1
 UTILITIES
►SETTINGS
 INFO
```

USER FILAMENT

The user can customize the temperature of the extruder, print bed and unload filament based on the requirements of filament and designing objects.
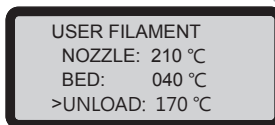
NOZZLE   Print Bed   Filament Unloading

```
USER FILAMENT
 APPLY SETTING
-----------------------
>NOZZLE: 210 ℃
```

```
USER FILAMENT
 NOZZLE:  210 ℃
>BED:       040 ℃
 UNLOAD: 170 ℃
```

```
USER FILAMENT
 NOZZLE:  210 ℃
 BED:        040 ℃
>UNLOAD: 170 ℃
```

Refer to P.14 for Temperature Setting

BUZZER

When the buzzer is turned on, the printer will output an audible signal when a button is pressed, print job is finished, or issue is detected.

```
SETTINGS
 USER FILAMENT
►BUZZER          ON
 AUTO HEAT     OFF
```

```
BUZZER
►OFF
 ON
```
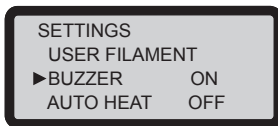
● Buzzer is turned on by default, you can select "OFF" and press "OK" to change the setting.

AUTO HEAT

```
SETTINGS
 BUZZER            ON
►AUTO HEAT     OFF
 LANGUAGE
```

```
AUTO HEAT  [OFF]
► OFF
  ON
```
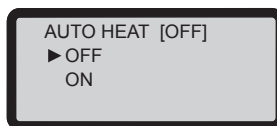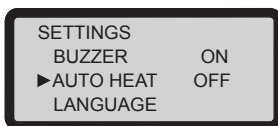
● When "AUTO HEAT" is turned on, the printer heats up the extruder and the print bed after powered on. This helps to shorten the idle time that is necessary to heat up the printer before printing.
● "AUTO HEAT" is off by default. you can select "ON" and "OK" to change the setting.

LANGUAGE

We suggest setting the language shown on the printer screen before use. The user can switch among English, Japanese, French, German, Italian and Spanish. English is the preset language. For other languages: Use "UP" and "DOWN" buttons to select the desired language and press "OK" to change setting.

```
SETTINGS
 AUTO HEAT    OFF
►LANGUAGE     EN
 ENERGY SAVE  03M
```

```
LANGUAGE
►ENGLISH
 ニホンゴ
 FRANCAIS
```
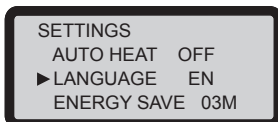
ENERGY SAVE

LED luminaries are installed in the printing chamber. To save energy consumed, the lighting will go off after idling for 3 minutes (shown as 03M on the display) by default.
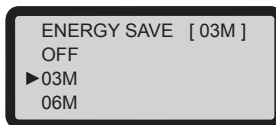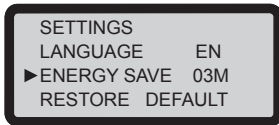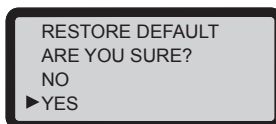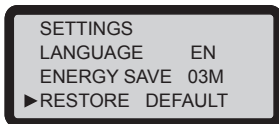
```
SETTINGS
LANGUAGE      EN
►ENERGY SAVE   03M
RESTORE  DEFAULT
```

```
ENERGY SAVE  [ 03M ]
OFF
►03M
06M
```

Select "06M" (for auto off after 6 minutes) or "OFF" (for never turn off the LED) and press "OK" to change the setting.

RESTORE DEFAULT

All settings can be reset to factory default with a few clicks.

```
SETTINGS
LANGUAGE        EN
ENERGY SAVE  03M
►RESTORE  DEFAULT
```

```
RESTORE DEFAULT
ARE YOU SURE?
NO
►YES
```

Select "YES" and press "OK" to reset all settings.

INFO

The firmware and printer statistical information, including:
◆ STATISTICS ◆ SYSTEM VERSION ◆ CARTRIDGE STATS ◆ WIFI INFO ◆ HELP

```
Pro. 1
   SETTINGS
► INFO
   MONITOR MODE
```
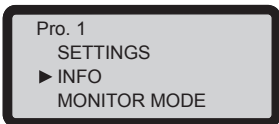
STATISTICS

Show the accumulated printing time and the last printing time. If you want to exit, press "OK".

```
INFO
►STATISTICS
SYSTEM VERSION
CARTRIDGE STATS
```

```
STATISTICS
LIFE  TIME   00006H
LAST  TIME 00H34m
[OK]   TO RETURN
```
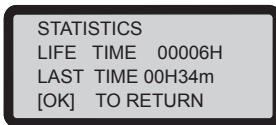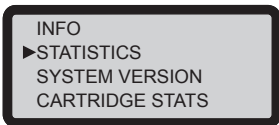
SYSTEM VERSION

Show the version information of the current firmware. We suggest upgrading printer firmware to the latest version to ensure steady quality. To check whether latest version of firmware is available, use XYZware. If you want to exit, press "OK".

```
INFO
STATISTICS
►SYSTEM VERSION
CARTRIDGE STATS
```

```
SYSTEM VERION
0.0.4
[ OK] TO RETURN
```
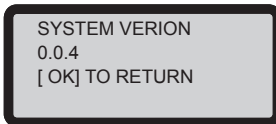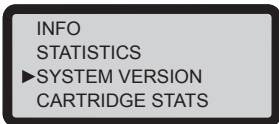
CARTRIDGE STATS

Show the remaining amount of filament (such as "REMAINING" for length information), volume of spool, color of filament and material information. Press to skip the page and press "OK" to exit.

```
INFO
  SYSTEM  VERSION
►CARTRIDGE  STATS
  WIFO INFO
```

```
CARTRIDGE STATS
REMAINING   240m
CAPACITY    240m
[ DOWN]  NEXT PAGE
```

```
COLOR
RED

[ DOWN]  NEXT PAGE
```

```
MATERIAL
ABS

[ OK] TO RETURN
```

WIFI INFO

It shows the current situation of the WiFi connection of the printer.
Refer to P.17 for "XYZware for Pro" WiFi Setting

```
INFO
   CARTRIDGE  STATS
►WIFO INFO
   HELP
```

```
INFO
SYSTEM VERSION
CARTRIDGE STATS
►WIFI INFO
```

```
WIFI INFO
NO CONNECTION

[ OK] TO RETURN
```

If there is connection, SSID of connected Wi-Fi, IP address, name of the connected printer and connection version will be shown. Press "OK" key.

```
WIFI (SSID)
XYZ

►[ DOWN]  NEXT PAGE
```

```
IP ADDRESS
192.168.40.38

[ DOWN]  NEXT PAGE
```

```
PRINTER NAME
xyzpriting

[ DOWN]  NEXT PAGE
```

```
WIRELESS VER.
5.1.5

[ OK] TO RETURN
```
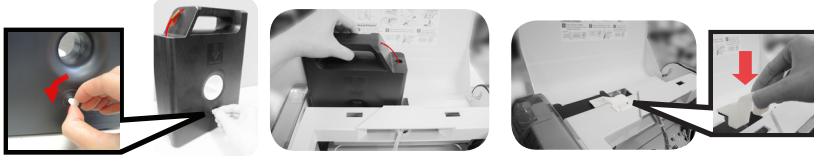
HELP

You may go to the website for the latest information, product documents, tutorial video and more. If you want to exit, press OK.

```
INFO
   CARTRIDGE  STATS
   WIFO INFO
►HELP
```

```
HELP
www.xyzprinting.com

►[ OK] TO RETURN
```

Functional operations and descriptions

Install and Load Filament UTILITIES > CHANGE CART > LOAD FILAMENT

● **Install Filament Cartridge from XYZprinting**

◆ Remove the filament stopper and tape and install the filament cartridge into the empty slot.

◆ Place and push to click the cartridge locker

● **Install Compatible filament**

Hang the spool on the filament spool holder prepared by yourself

◆ Remove the cartridge from the cartridge slot if any to use your own filament

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◆Insert filament into the guide hole until the printer starts to load filament.
◆Press the release arm to open the feeding path while inserting the filament
◆Then, activate LOAD FILAMENT function on the printer

*Recommend using a clips and other tools to cut the tips of the filaments to generate a tapered tip of 45 degrees, and to straighten the filaments to facilitate the filament loading process.

Activate LOAD FILAMENT function on the control panel

    CHANGE CARTRIDGE
    >LOAD FILAMENT

● To use XYZprinting filament and apply the recommended temperature settings,select "YES"

    USE XYZPRINTING
    CARTRIDGE NOW?
    > YES

● Select "NO" if filaments of other brands are used.

    USE XYZPRINTING
    CARTRIDGE NOW?
    > NO

    USER FILAMENT
    APPLY SETTING

    >NOZZLE: 210 ℃

A. Wait for the extruder to heat up

B. As the temperature reaches op-erating setting the printer loads automatically the filament, and filament loading is completed

C. Check if the filament flows out from the nozzle. If the filament has flowed out, please press "OK" to complete the loading process

※ To use pre-defined temperature settings: Select "APPLY SETTING" directly to enter the workflow shown on the left
※ To specify your own temperature settings:Select the printer component using the new settings. To set the heating temperature, please refer to instructions provided for "Temperature Settings" function Select "APPLY SETTING" to start applying your specified temperature settings. The process on the left will start and the printing component will start to heat up

Remarks: The temperature setting in this procedure is appli-cable only to 3D Builder application software devel-oped by Microsoft. For more information about 3D Builder, please visit the Microsoft website

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◆ **Filament loading is completed**

Functional operations and descriptions

Unloading Filament

> UTILITIES
> CHANGE CART
> ▶ UNLOAD FILAMENT

● UTILITIES > CHANGE CART > UNLOAD FILAMENT

In unloading filament, activating the filament unloading function on the control panel of the printer
1. Wait for the extruder to heat up to operating temperature and unload the filament.
2. As "PULLOUT FILAMENT" is displayed on the screen, press the release arm and pull out the filament.

Temperature Setting

> SETTINGS
> ▶ USER FILAMENT

● SETTINGS > USER FILAMENT

The user may customize nozzle temperature, print bed temperature and filament unloading tempera-
ture in accordance with requirements of different filaments and design objects:

1 Select the item for temperature setting

A Nozzle

> USER FILAMENT
>   APPLY SETTING
>   ------------------------
> >NOZZLE: 210 ℃

Press "OK" to enter temperature setting for nozzle

B Print Bed

> USER FILAMENT
>   NOZZLE: 210 ℃
> >BED: 040 ℃
>   UNLOAD: 170 ℃

Press "OK" to enter temperature setting for print bed

C Filament Unloading

> USER FILAMENT
>   NOZZLE: 210 ℃
>   BED: 040 ℃
> >UNLOAD: 170 ℃

Press "OK" to enter temperature setting for filament unloading

2 Temperature Customization:

> ^
> NOZZLE: 2[1] 0 ℃
> ∨
> [<] [>], OR [OK]
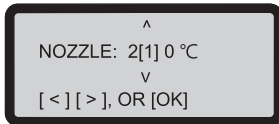
● Use "left key", "right key" to select the digit (single, tens, hundreds) for the temperature to be adjusted.
● Use "up key", "down key" to adjust the value.. The up key is for increasing value, and the down key is for decreasing value. Press "OK" key to apply setting.
● If your customized temperature exceeds allowable setting range, press "OK" and a setting range alert will be displayed.
● Once parameter settings are complete, return to the previous page and select "APPLY SETTING" to save and apply the settings that you have specified.

**3** ⚠ Constraints of Customized Temperature Range

NOZZLE	Warming up of the nozzle of the extruder in feeding and print-ing: 170℃ ~ 240℃
BED	Temperature elevation range of the print bed: 40℃ ~90℃
UNLOAD	Temperature elevation range of the extruder in unloading: 170℃ ~240℃

Remarks: The temperature setting in this procedure is applicable only to 3D Builder application software developed by Microsoft. For more information about 3D Builder, please visit the Microsoft website
● If the temperature for print bed is specified as 40° C, room temperature printing will be enabled and the print bed will not be heated.
● Excessively low extruder temperature may result in poor filament feeding, result in poor filament feeding that prevents proper extrusion of the filament through the nozzle. Hence, please adjust the operating temperature of the extruder first.

Functional operations and descriptions
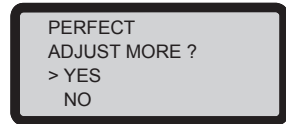
Print Bed Adjustment
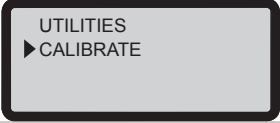
Before first printing, please calibrate the bed to guarantee an appropriate levelness of the bed for printing.

● UTILITIES > CALIBRATE

After the printer is heated up to an appropriate temperature, the distances between measurement points on bed edge ①、②、③、④ and probes are measured automatically to determine levelness of the bed.
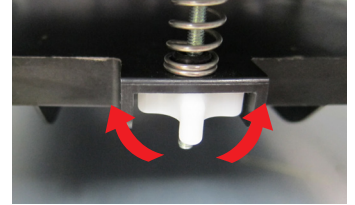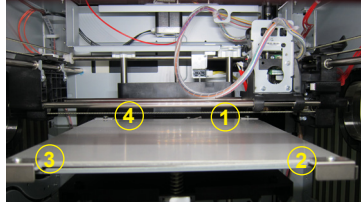
● If the automatic detection function determines that there is no need to adjust levelness of the bed, "PERFECT" will be displayed on screen. At this moment, press "NO" to exit.
If it displays that the bed has to be adjusted from the detection result, an adjustment prompt will be displayed.
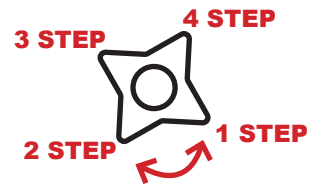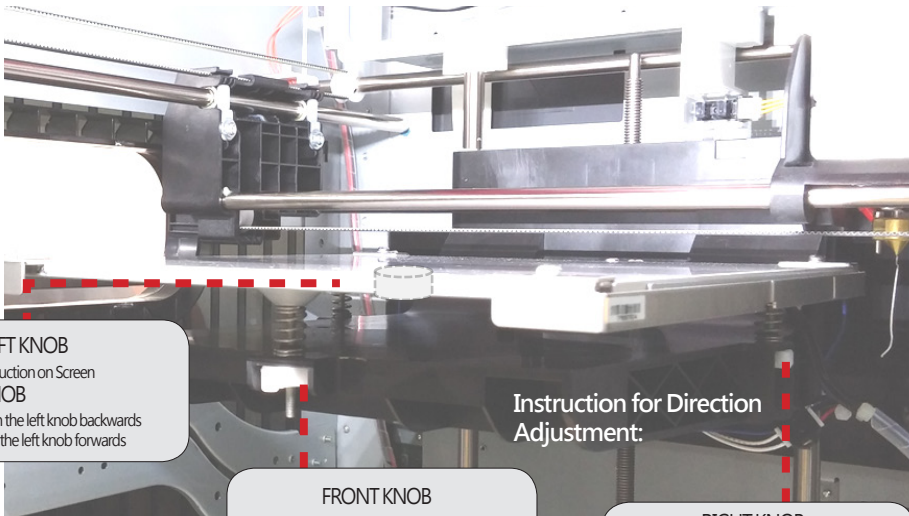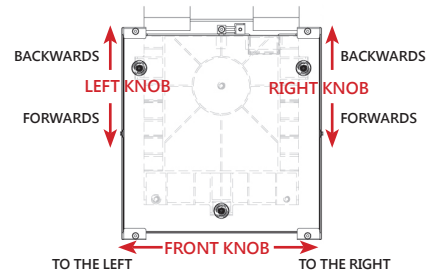
PERFECT
ADJUST MORE ?
> YES
　NO

● Calibration Instruction

4 STEP
3 STEP
2 STEP
1 STEP

(There are three white 4-step knobs under the bed. Each step of turning indicates 90 degrees of rotation and 4 steps of flick indicate a complete circle of rotation of the knob.)

Knob Location and Adjustment Direction

BACKWARDS　　　　BACKWARDS
LEFT KNOB　　RIGHT KNOB
FORWARDS　　　　FORWARDS
TO THE LEFT　FRONT KNOB　TO THE RIGHT

LEFT KNOB
Description for Instruction on Screen
TURN LEFT KNOB
BACKWARDS - Turn the left knob backwards
FORWARDS - Turn the left knob forwards

Instruction for Direction Adjustment:

FRONT KNOB
Description for Instruction on Screen
TURN FRONT KNOB
TO THE RIGHT - Turn the front knob rightwards
TO THE LEFT - Turn the front knob leftwards

RIGHT KNOB
Description for Instruction on Screen
TURN RIGHT KNOB
BACKWARDS - Turn the right knob backwards
FORWARDS - Turn the right knob forwards

● There are three white 4-step knobs under the bed. Each step of turning indicates 90 degrees of rotation, and 4 steps of flick indicate a complete circle of rotation of the knob as shown in the messages on screen. Press "OK" key to continue viewing adjustment instructions.

TIPS FOR TURNING
1 STEP=90 DEGREE
4 STEPS=1 CIRCLE
[OK] TO CONTINUE
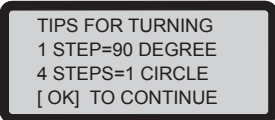
Knobs corresponding to this procedure
Turning direction
Number of turning steps (each step indicates 1 tick/90 degrees of rotation)
After flicking knob in accordance with prompt, press "OK" key to continue

TURN FRONT KNOB
TO THE RIGHT :
8.7 STEPS
[OK] TO NEXT
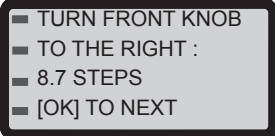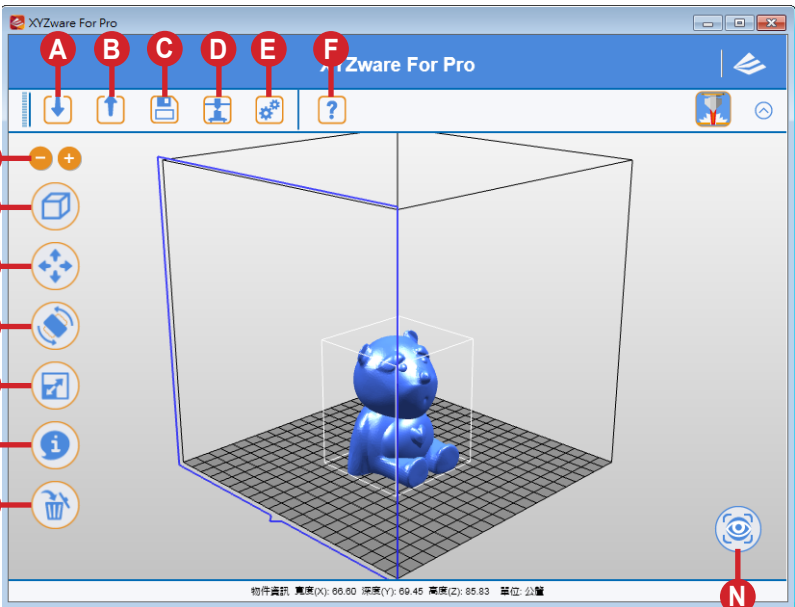
After flicking the knobs in accordance with instruction, the printer will detect the levelness of the bed again. As "PERFECT" is displayed form the detection result, print may be started.
If the measurement point of the bed is stained or the bed is too high or too low, wrong measurement will occur and the warning of "CALIBRATE FAIL" will be shown on the screen. Please adjust the print bed.

Print

Transfer print file through computer software "XYZware for Pro"

Connect the printer and the computer with USB cable and install "XYZware for Pro" in the computer to transfer print file.

A	Import .stl, .3w files
B	Convert to .3w file
C	Save .stl file
D	Set print preference, transfer print file
E	Set software display language, preview color
F	Query, update software and firmware versions, open link to official website
G	Adjust display scale
H	Switch preview angle rapidly
I	Move location of the model
J	Change angle of the model
K	Adjust size of the model
L	Display information about the model
M	Delete the model from the virtual platform
N	Check printer temperature, filament information and print progress

"XYZware for Pro" may run in Windows 7 and above and Mac OS 10.8 and above operating systems. You may install it from the bundled CD or download the installation file from the XYZprinting official website.

● Basic Operation Flow

After opening the software, click "Import" to select the model file you desire to print and load it. After setting up the model at the desired size, location and placement, you can also adjust the printing preferences, such as print speed and layer height by clicking the "Export" icon. Click the "Export" button to slice the file.
When the model is sliced, click on the "Print" button to send the file for printing.

For more information on software update, operation instructions and technical supports, please visit the XYZprinting official website: http://www.xyzprinting.com/
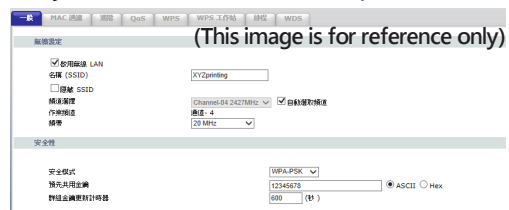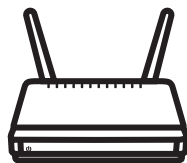
Print

WiFi Connection

The printer supports Wi-Fi connection printing.
Install "XYZware for Pro", and activate Wi-Fi setting of the printer in accordance with the following instruction to switch the printer to wireless control mode, such that the print file may be subsequently transferred wirelessly.

● **Preparation Prior to Setting**

1. The network print function is provided mainly for Intranet application. Please set the printer and the computer in the same domain, that is, link them to the same wireless base station (Access Point)
2. Before linking the printer, settings would be adjusted for the connected wireless base station. For detailed setting way, please refer to the operation instruction of the product or original vendor relevant information.
3. Channel Width may be set to 20 MHz for use of wireless print function. Please refer to original vendor operating instruction of wireless base station to understand adjustment way
4. Please keep the wireless network function in the on state
5. The machine supports the following link security modes. Public key information would be requested to enter in setting printer connection
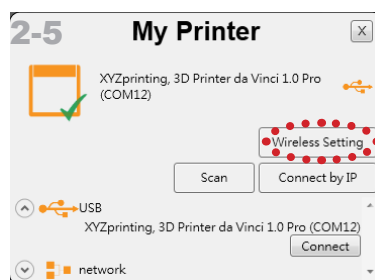   ◆ WEP   ◆ WPA   ◆ WPA2

(This image is for reference only)

● **Wi-Fi Settings**

1 Please use a USB cable to link the computer and the printer, and open XYZware for Pro.

2 Click the "Printer Monitoring" function icon on the lower right corner on the screen, open "Printer Monitoring" window, click "My Printer" > "Scan" to enter the page for printer search, and click "Wireless Network Settings" to enter the page for wireless print settings.

2-1

2-2 Printer Monitor

Ready to print

Heated Bed	26 °C	
Extruder 1	10 °C	200 m / 0 m
Extruder 2	-- °C	-- m / -- m

My Printer   Hide

2-3 My Printer

XYZprinting, 3D Printer da Vinci 1.0 Pro (COM12)

Scan

USB
network

2-4 My Printer

XYZprinting, 3D Printer da Vinci 1.0 Pro (COM12)

Cancel

USB
XYZprinting, 3D Printer da Vinci 1.0 Pro (COM12)
Connect
network

2-5 My Printer

XYZprinting, 3D Printer da Vinci 1.0 Pro (COM12)

Wireless Setting

Scan   Connect by IP

USB
XYZprinting, 3D Printer da Vinci 1.0 Pro (COM12)
Connect
network

Print

WiFi Connection

3 Please enter printer name (either English or numeric name), press "Scan" function to obtain wireless base station information with dropdown menu, and select the name of the wireless network you desire to connect.

Setup Printer Wireless [X]

Printer Name | Name your printer here | Update
Wireless Connection | Scan & Select One ▾ | Scan
Password |
☐ Show Password
Printer IP |

Start wireless connection

4 After successful connection, Wi-Fi name will be displayed on screen of the printer.

WIRELESS
CONNECTING

PLEASE WAIT

5 At this moment, USB cable may be taken off to continue the print process.

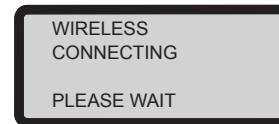**6** If connection is to be disconnected, please connect USB back between the computer and the printer, and open XYZware for Pro again.

Product Specification

Print Technology	Fuse Filament Fabrication (FFF)	Weight	26 KG
Print Dimension	20 x 20 x 20 cm	Print Material	ABS / PLA
Print Resolution	0.1 / 0.2 / 0.3 / 0.4 mm	Filament Diameter	1.75 mm
Display Screen	2.6 inch LCM	Nozzle Diameter	0.4 mm
Connection Method	USB 2.0 / WiFi	Operating System	Win 7 and above Mac OSX 10.8 and above
Print Software	XYZware for Pro	File Format	3w / stl

Print From A Mobile Application

1.The mobile device needs to support wireless printing.
2.Install XYZprinting App from Android or iOS system.

User Information

Category

Gallery
Main screen

My Upload
Upload the item and printable file

Printer
To remote control printer

About
Printer information and copyright

● Step
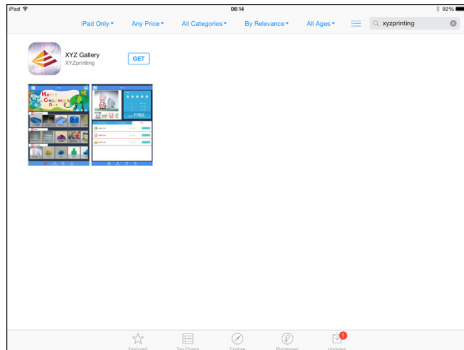
1 Open the Play Store from your Android browser or App store of iOS system to search "XYZgallery" and download the application to your device.

2 Please register an account at XYZprinting official website before logging in.

3 After log in, you will see " most popular" , "new" and "printable*" three folders for you to choose.

4 Select the object you want to print.

5 Select the printer and confirm the printer information, tap "Confirm to print", the file will be sent to the printer and ready to print.

Note:

1.Ensure the mobile device and the printer are connected on the same wireless network.

2.Transferring a print fi le over a wireless network may take more time than transferring a print file from a USB mass storage device.

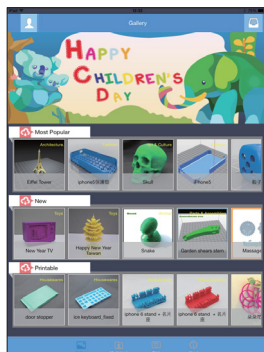3. When a .3w file with incompatible slicing is selected, the message of "Printer Type does not match" will be displayed. We suggest selecting other files or downloading .stl to slice before printing.

*The printable file is .3w format which can print from App directly. Some prints are.stl files that need to export into .3w format via XYZware before printing. If the fi le requires payment, please follow the payment instruction.

Support Details

As the printer encounters issues, please refer to the following troubleshooting instruction to fix the issues. If the issue cannot be removed, please contact customer service center

Error message and Action
In the event of problems, related service code will be shown on the printer screen and/or software interface. Please refer to the description table of the service code for preliminary examination.

Service Code	Symptom	Action
0 0 0 3 (software)	Print bed heating problem	Confirm whether the heater works normally and whether the senor and heating rod are installed correctly or work normally. Problems may occur when the printer works under 25 ℃ . Please move the printer to the environment at proper temperature.
0 0 0 7 (software)	"UNIDENTIFIED CARTRIDGE" shown on the printer screen indicates filament chip anomaly.	Reinstall or replace the filament cartridge.
0 0 0 8 (software)	"UNIDENTIFIED CARTRIDGE" shown on the printer screen indicates filament chip anomaly.	Reinstall or replace the filament cartridge.
0 0 1 0	Print bed heating problem	Confirm whether the heater works normally and whether the senor and heating rod are installed correctly or work normally. Problems may occur when the printer works under 25 ℃ . Please move the printer to the environment at proper temperature.
0 0 1 1	Extruder heating problem	Confirm whether the nozzle works normally and whether the senor and heating rod are installed correctly or work normally. Problems may occur when the printer works under 25 ℃ . Please move the printer to the environment at proper temperature.
0 0 1 3	Print bed heating problem	Confirm whether the heater works normally and whether the senor and heating rod are installed correctly or work normally. Problems may occur when the printer works under 25 ℃ . Please move the printer to the environment at proper temperature.
0 0 1 4	Extruder heating problem	Confirm whether the nozzle works normally and whether the senor and heating rod are installed correctly or work normally. Problems may occur when the printer works under 25 ℃ . Please move the printer to the environment at proper temperature.
0 0 2 8 (software)	NO CARTRIDGE (Filament is not installed correctly)	Reload or replace the filament
0 0 2 9 (software)	CARTRIDGE EMPTY	Replace filament immediately
0 0 3 0	X-axis movement abnormalities	Check motor/sensor connections. Check sensor position.
0 0 3 1	Y-axis movement abnormalities	Check motor/sensor connections. Check sensor position.
0 0 3 2	Z-axis movement abnormalities	Check motor/sensor connections. Check sensor position.
0 0 5 0	Internal storage error	Reboot the printer
0 0 5 1	flash ram access error	Reboot the printer
0 0 5 2	Nozzle internal memory error	Please contact our Customer Service center

Support Details

Error Status	Recommended Process Ways
Printer is busy	Try again after current task is completed, and examine the information displayed on screen of the printer
Firmware of the printer cannot be updated	Check internet connection / Update firmware later
Nozzle is clogged	Unload the filament to clean the nozzle, and then reload the filament
Filament cannot be loaded	Unload and reload the filament
NO CARTRIDGE Filament is not installed correctly	Reload or replace the filament
CARTRIDGE EMPTY Filament ran out prior to a print : remain 0%	Replace filament immediately
FILAMENT LOW Filament residual is low. remain 30%	Replace filament if necessary
FILAMENT END Filament ran out while printing : remain 0%	Replace filament immediately

Maintenance and Service

Keep original packaging material in the event of sending your unit back for repair during the warranty period.
If other packing materials are used instead, the printer may be damaged during the transportation process.. In such situation, the XYZprinting the right to charge repair fee.

Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.
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 interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
● 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 connected.
● Consult the dealer or an experienced radio/TV technician for help.
XYZprinting is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.
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.
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.