Dear Consumers,

Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our teams will always be ready to render you the best services. Please contact us by phone number or e-mail address provided at the end when you encounter any problem with the Printer.

For a better experience in using our product, you can also learn how to use the Printer in the following ways:

View the accompanied instructions and videos in the TF Card.
Visit our official website www.creality.com to find relevant software/hardware information, contact details and operation and maintenance instructions.

Notes

Product introduction
设备简介

Spare parts
零部件清单

Assemble the 3D printer
组装3D打印机

Use the 3D printer
使用3D打印机

Start printing
首次打印

Wire connection
电路接线

Troubleshooting
故障检修
1. Do not use the printer in any way other than described herein in order to avoid personal injury or property damage.
2. Do not place the printer near any heat source or flammable or explosive objects. We suggest placing it in a well-ventilated, low-dust environment.
3. Do not expose the printer to violent vibration or any unstable environment, as this may cause poor print quality.
4. Before using experimental or exotic filaments, we suggest using standard filaments such as ABS or PLA to calibrate and test the machine.
5. Do not use any other power cable except the one supplied. Always use a grounded three-prong power outlet.
6. Do not touch the nozzle or printing surface during operation as they may be hot. Keep hands away from machine while in use to avoid burns or personal injury.
7. Do not wear gloves or loose clothing when operating the printer. Such cloths may become tangled in the printers moving parts leading to burns, possible bodily injury, or printer damage.
8. When cleaning debris from the printer hotend, always use the provided tools. Do not touch the nozzle directly when heated. This can cause personal injury.
9. Clean the printer frequently. Always turn off the power before cleaning, and wipe with a dry cloth to remove dust, adhered printing plastics or any other material off the frame, guide rails, or wheels. Use glass cleaner or isopropyl alcohol to clean the print surface before every print for consistent results.
10. Children under 10 years of age should not use the printer without supervision.
11. This machine is equipped with a security protection mechanism. Do not manually move the nozzle and printing platform mechanisms while booting up, otherwise the device will automatically power off for safety.
12. Users shall comply with related nation and region’s laws, regulations and ethical codes where the equipment or produced prints by it is used, and users of our product shall not use aforesaid products to print any end-use products, objects, parts or components or any other physical prints that violate the national or regional laws, regulations and ethical codes where herein referred product and produced prints by it is located.
Product introduction

设备简介

1. XE-axis kit X轴组件
2. X-axis limit switch X轴限位开关
3. Print platform 打印平台
4. Y-axis tensioner Y轴张紧器
5. Tool box工具盒
6. Extruded kit 挤出组件
7. Material rack and spool holder 料架及料管夹
8. Z-axis passive block Z轴被动块
9. X-axis tensioner X轴张紧器
10. Screen 显示器
11. Knob switch 指示开关
12. Machine base 机器底座
13. Power supply 电源
14. Voltage regulator 电压调节器
15. Y-axis limit switch Y轴限位开关
16. Y-axis motor Y轴电机
17. Indication knob 指示旋钮
18. E-axis motor E轴电机
19. X-axis motor X轴电机
20. Coupling 联轴器
21. Z-axis limit switch Z轴限位开关
22. Z-axis motor Z轴电机
23. Power switch and socket 电源开关及插座
## Equipment parameters

<table>
<thead>
<tr>
<th>Basic Parameters 基本参数</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>Ender-3 V2</td>
</tr>
<tr>
<td><strong>Print size</strong></td>
<td>220<em>220</em>250mm</td>
</tr>
<tr>
<td><strong>Forming technology</strong></td>
<td>FDM</td>
</tr>
<tr>
<td><strong>Number of nozzle</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Layer thickness</strong></td>
<td>0.1mm-0.4mm</td>
</tr>
<tr>
<td><strong>Nozzle diameter</strong></td>
<td>±0.1mm</td>
</tr>
<tr>
<td><strong>XY axis precision</strong></td>
<td>±0.1mm</td>
</tr>
<tr>
<td><strong>Filament</strong></td>
<td>Φ1.75mm PLA</td>
</tr>
<tr>
<td><strong>File format</strong></td>
<td>STL/OBJ/AMF</td>
</tr>
<tr>
<td><strong>Working mode</strong></td>
<td>Memory card offline printing or online printing;支持存储卡脱机打印或联机打印</td>
</tr>
<tr>
<td><strong>Compatible slicing software</strong></td>
<td>3D Creator Slicer, Repetier-Host, Cura, Simplify3D</td>
</tr>
<tr>
<td><strong>Power specification</strong></td>
<td>Input: AC 115-230V 50/60Hz, Output: DC 24V</td>
</tr>
<tr>
<td><strong>Total power</strong></td>
<td>350W</td>
</tr>
<tr>
<td><strong>Hotbed temperature</strong></td>
<td>≤100°C</td>
</tr>
<tr>
<td><strong>Nozzle temperature</strong></td>
<td>≤250°C</td>
</tr>
<tr>
<td><strong>Resume printing function</strong></td>
<td>Yes / 否</td>
</tr>
<tr>
<td><strong>Filament sensor</strong></td>
<td>No / 不支持</td>
</tr>
<tr>
<td><strong>Dual z-axis screws</strong></td>
<td>No / 不支持</td>
</tr>
<tr>
<td><strong>Language switch</strong></td>
<td>English / 中文</td>
</tr>
<tr>
<td><strong>Computer operating system</strong></td>
<td>Windows XP/Vista/7/10/MAC/Linux</td>
</tr>
<tr>
<td><strong>Print speed</strong></td>
<td>≤180mm/s, 30-60mm/s normally</td>
</tr>
</tbody>
</table>
Spare parts
主要部件清单

1. Printer base x 1 底座组件
2. Display kit x 1 显示屏组件
3. Extruded kit x 1 挤出组件
4. Z-axis passive block x 1 Z轴被动块
5. X-axis tensioner x 1 X轴张紧器
6. Z-axis motor kit x 1 Z轴电机组件
7. Z-axis limit switch kit x 1 Z轴限位开关组件
8. XE axis kit x 1 XE轴组件
9. Z-axis profile (left) x 1 Z轴型材(左)
10. Z-axis profile (right) x 1 Z轴型材(右)
11. Gantry profile x 1 龙门架上型材
12. X-axis profile x 1 X轴型材
13. T-type screw x 1 T型丝杆
Spare parts

Accessory tool list

14. Material rack x 1
15. Material pipe and nut x 1
16. 2020 profile cover x 2
17. Synchronous belt x 1
18. Metal blade x 1
19. Diagonal pliers x 1
20. Cable tie x 1
21. Needle x 1
22. Storage card and card reader x 1
23. Pneumatic joint x 2
24. Power cable x 1
25. Wrenches and screwdrivers x 1
26. Blue line claw x 2
27. Hexagon socket flat round head screw M5x8 x 2
28. Hexagon socket countersunk head screw M4x18 x 2
29. Hexagon socket head spring washer combination screw M5x25 x 5
30. Filament x 1
31. MST nuts x 2
32. Hexagon socket flat round head spring washer combination screw M4x16 x 5
33. Nozzle x 1
34. Indication knob x 1
35. Hexagon socket countersunk head screw (black) M4x14 x 1
36. Hexagon socket head spring washer combination screw M4x16
1. **Installation of Z-axis limit switch kit and Z-axis profiles**

安装Z轴限位开关组件，Z轴型材

---

**Step:**

1. **Printer base x 1**
   
   底座组件

2. **Z-axis profile (left) x 1**
   
   Z轴型材 (左)

3. **Z-axis profile (right) x 1**
   
   Z轴型材 (右)

4. **Z-axis limit switch kit x 1**
   
   Z轴限位开关组件

5. **Hexagon socket head spring washer combination screw M5x45 x 4**
   
   内六角圆柱头弹簧组合螺钉M5x45

6. **Install Z-axis limit switch**
   
   安装Z轴限位开关

---

**Step:**

Put the endstop sensor on Z-axis (left) like the picture above. Then use the four pieces screw M5x45 to fix Z-axis with the base.

步骤：把限位传感器安装到Z轴型材（左）如上图，用4颗内六角圆柱头弹簧组合螺钉M5x45将Z轴型材安装在底座组件上。
Install Z-axis motor kit and t-type screw

安装Z轴电机组件、T型丝杆

Steps: Lock the T-shaped screw rod on the Z-axis motor component, and then use two M4X18 screws to slightly lock the Z-axis motor component on the profile (as shown above).

步骤：把T型丝杆锁定在Z轴电机组件上，然后用两颗M4X18螺钉将Z轴电机组件微锁定在型材上（如上图示）。
Install pneumatic joint, XE-axis kit and synchronous belt

安装气动接头、XE轴组件、同步带

Step: Tighten the tube connector by open end wrench. And fix the XE-axis kit with two pieces M4*16 screw. Put the timing belt through the XE-axis kit with direction same as the picture.

步骤：装气动接头时用开口扳手拧紧；用两颗M4X16螺钉，将XE轴组件固定在型材上；将同步带穿过XE轴组件(注意同步带方向)如上图示。
4 Install extrusion kit, Z-axis passive block

Steps: Put the synchronous belt into the profile along the v-wheel of the extrusion kit. When pushing it into the middle, as shown in the figure; lock the z-axis passive block with one M4×16 screw.

步骤：将同步带贴紧型材同时沿著挤出组件的V型套进型材，推入中段，如上图示；用1颗M4X16圆头螺钉将Z轴被动块锁住。
5 Install X-axis Tensioner
安装X轴张紧器

- **X-axis tensioner x 1**
  - X轴张紧器

- **Hexagon socket flat round head spring washer combination screw M4X16 x 1**
  - 内六角平圆头弹垫组合螺丝M4X16

- **Hexagon socket countersunk head screw (black) M4X14 x 1**
  - 内六角沉头螺钉（黑）M4X14

---

**Steps:**

1. Insert the timing belt into the tensioner block, and put it into the X-axis tensioner together with the timing belt.
2. Tighten it with a plastic hand screw nut, and then lock it with round head M4X16 and countersunk head M4X14 screws both sides of the Z axis passive block.

---

**Diagram:**

- **Diagram of complete installation**
  - 安装完成示意图

- **Installation diagram**
  - 安装示意图

- **Section diagram of synchronous belt moving**
  - 同步带移动剖面示意图

- **The location of copper sleeve of synchronous belt**
  - 同步带铜套插入位置

---

**Additional Information:**

- **Installation diagram**
- **Diagram of complete installation**
- **Section diagram of synchronous belt moving**
- **The location of copper sleeve of synchronous belt**

---

**Key Components:**

- **Tensioner block**
- **Synchronous belt tensioner base**
- **Plastic thumb nuts**
- **Hexagon socket flat round head**
- **Hexagon socket countersunk head**

---

**Notes:**

- **Steps:** Insert the timing belt into the tensioner block, and put it into the X-axis tensioner together with the timing belt, tighten it with a plastic hand screw nut, and then lock it with round head M4X16 and countersunk head M4X14 screws both sides of the Z axis passive block.

---

**Additional Items:**

- **Hexagon socket flat round head spring washer combination screw M4X16**
- **Hexagon socket countersunk head screw (black) M4X14**
Install Z-axis moving kit

Take the fifth step: assembled components

Take the second step: assembled components

Steps: Make the Z-axis moving kit insert the two ends of the Z-axis profile along V-wheel on both sides. As shown in the figure above.

步骤: 将Z轴移动组件，沿着两边V轮插入Z轴型材两端，如上图所示。
Install the gantry profile, display kit

安装龙门架上型材、显示屏组件

Step: Install the upper frame of the gantry structure with 4 pieces of M5x25 screw. Use an Allen wrench to lock the screen kit onto the machine with the left side four screws.

步骤：用4颗内六角圆柱头弹垫组合螺钉M5×25将龙门架上型材固定在龙门架上端；用内六角扳手将显示屏组件左侧4颗螺丝与机器锁紧即可。
Install material rack, gantry cover and indication knob

安装料架、型材盖、指示旋钮

Steps: Put flat round head M5X8 and M5T screws into the material rack (as shown), place the spool holder on the rack and fix on the profile with screws (as shown); Put the indication knob on the motor shaft and then place the 2020 profile cover on both side.

步骤：将平圆头螺钉M5X8及M5T螺母安装于料架上（如上图示），把料架筒装于料架上并拧上料架螺母，最后固定于型材上（如上图示）；将指示旋钮直接套入电机轴，按上左右两边的2020型材盖。
**Wire connection**  

**设备接线**

Connect X, E, Z-axis stepper motors according to the yellow label on the 6pin (4 wires) port.

Connect X, Z-axis limit switches according to the yellow label on the 5pin (2 wires) port.

Plug in the power cord (as shown) and toggle the switch to turn on the power.

---

**Caution**

- Select the correct input voltage to match your local mains (115/230V).
- Damage can occur if voltage is set incorrectly.
- Connect the power cord and turn the power switch to 1 to turn it on.
- Use the correct input voltage to avoid damaging the motor.
- If the voltage setting is incorrect, the motor may become damaged.
- Do not connect or disconnect the cables when the machine is powered on.

---
10 Preheat

Method 1:

Note: The UI information is only for reference, the actual UI may be different.

注意：界面仅供参考，实际以UI为准。
Preheat

Method 2

Nate: print standard is adjusted at the factory, PLA preheating standard: nozzle temperature 200 °C, hot bed temperature 60 °C, ABS preheating standard: nozzle temperature 240 °C, hot bed temperature 70 °C.

If you need to adjust it due to printing materials or other reasons, you can adjust the parameters on the interface home page control → temperature → PLA / ABS preheat setting.

Note: The print preheating standard is adjusted at the factory, PLA preheating standard: nozzle temperature 200 °C, hot bed temperature 60 °C, ABS preheating standard: nozzle temperature 240 °C, hot bed temperature 70 °C.

If you need to adjust it due to printing materials or other reasons, you can adjust the parameters on the interface home page control → temperature → PLA / ABS preheat setting.

注意：打印预热参数标准出厂时已调整好，PLA预热标准：喷嘴温度200°C，热床温度60°C，ABS预热标准：喷嘴温度240°C，热床温度70°C。

若因打印材料或其他原因需要调整，可以在界面首页控制→温度→PLA/ABS预热设置进行参数调整。
11 Load the filament

1. When waiting for the temperature to rise, please hang the filaments on the material rack.
   当您在等待温度上升时，把耗材挂在料架上。

2. Press the extrusion spring and insert the filament until the nozzle along the extrusion. When the temperature is up to the target temperature, the filament will come out of the nozzle, nozzle, and complete loading the filament.
   按住挤出弹簧，将耗材沿着挤出机孔插入直至喷嘴位置。当温度达到设定目标值时，可以看到喷嘴处有耗材流出，装载完成。

Replace the filament:
1. If no filament in the nozzle, cut the filament at the extruder, put the new filament into the tube, and until the filament arrives on the feeding tube.
   1. 若没有耗材在喷嘴内，将耗材在挤出机处剪断，将新耗材缓缓送入，直到耗材被送入喂料管为止。
2. If filament in the nozzle, heat up the nozzle to 185°+, draw out the filament, and then replace the filament according to step 1.
   2. 若耗材在喷嘴内，将喷嘴加热至185°+，拉出耗材，然后根据步骤1更换耗材。
3. If replace the filament during the printing process, adjust the printing speed to 10%, and then replace the filament according to step 2.
   3. 更换耗材时，在打印过程中，将打印速度调节为10%，然后根据步骤2更换耗材。

For better printing, the end of filament is as shown in the figure.
为了顺利完成打印，耗材的末端位置应，如图所示。
Start printing

1. Double click to install the software.
2. Double click to open the software.

3. Select language ➔ Next ➔ Select your machine ➔ Next ➔ Finish.

4. Open Creality 3D slicer ➔ Load (Read file) ➔ Select file.
Start printing

Please level the platform according to the video in storage card. Bad leveling will cause clogging or break of nozzle.

5. Generate G-code, and save the gcode file to TF card.
生成 G 代码→保存到TF卡

6. Insert the TF card → press the knob → select the menu → the file to be printed.
插入TF卡→按下旋钮→选择菜单→要打印的文件

File names must be Latin letters or numbers, not Chinese characters or other special symbols.
文件名称为拉丁字母或数字，不能为汉字或其他特殊符号。

Notes: For details on the software instructions, please refer to the slicing software manual in the memory card!
温馨提示：软件使用说明详，请见存储卡内切片软件使用手册！
Start printing

Print

打印
Wiring connection

电路接线

- X-axis motor port
- Y-axis motor port
- Z-axis motor port
- Extrusion motor port
- TF card slot
- Micro USB port
- Program upgrade port
- Screen port
- Reserved BL-touch port
- Nozzle thermistor port
- Hotbed thermistor port
- Power port
- Control bios fan port
- Fuse
Due to the differences between different machine models, the physical objects and the final images can differ. The final explanation rights shall be reserved by Shenzhen Creality 3D Technology Co., Ltd.

En每个机模不同，实际与图片可能有所差异，请以实物为准。最终解释权归深圳市创想三维科技有限公司所有。