

Z1-Manual for Chocolate Printing Robot

Z1-Chocolate Printer Robot User Manual

Welcome to your journey of anticipation

Thank you for choosing Hangzhou Pandar Technology Co., Ltd. products. For your convenience, please read this manual carefully before use and strictly follow the instructions. By using this product, you acknowledge and accept the following safety precautions.

The technical team at Pandar Technology is always ready to provide you with premium services. Should you encounter any issues during use, please contact us using the contact details provided at the end of this manual. To ensure a better product experience, we recommend adding our after-sales support for real-time assistance regarding hardware/software, device operations, and maintenance. Hangzhou Pandar Technology Co., Ltd. reserves the exclusive right to interpret and modify this manual.

After-Sale Service

- 1、 To ensure a good after-sales service experience, scan the QR code to add customer service after receiving your device.
- 2、 Scan the QR code to watch the tutorial video for equipment maintenance, debugging, and cleaning.

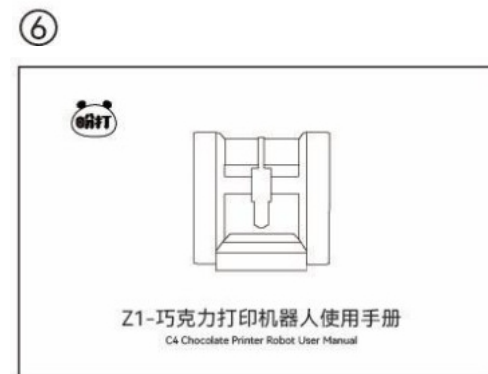
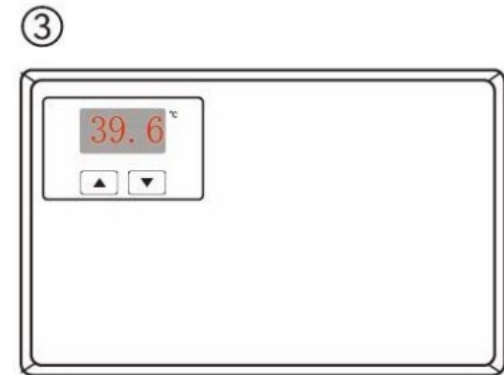
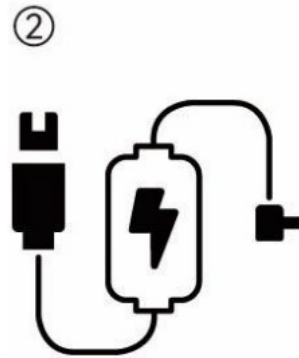
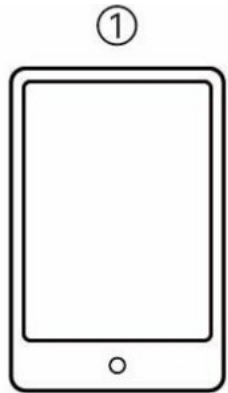


*We consistently prioritize user needs, continuously refining our three-guarantee service policy to deliver reliable and convenient services. This clause outlines the latest three-guarantee policy for PanDa products. For any policy updates, please refer to the manufacturer's official announcements.

◆ Catalogue

Fixed parts	-01
Product Brief Introduction	-02
product Parameters	03
Device print process	-03
Frequently Asked Questions Q& A and Pre-Use Notes04
Post-sale Notes Example	-06
disclaimer	08

◆ Standing Finish



1、 panel computer

2、 Power cord and adapter

3、 food additive heater

4、 Tool kit (includes toolbox, hex screwdriver, chocolate-specific printing needle, screws, etc.)

5、 Other (equipment certificates, certificates of conformity, warranty cards, etc.)

◆ Product Introduction

1、 External Unit of the Equipment

2、 Print Plate

3、 Heating Pipe

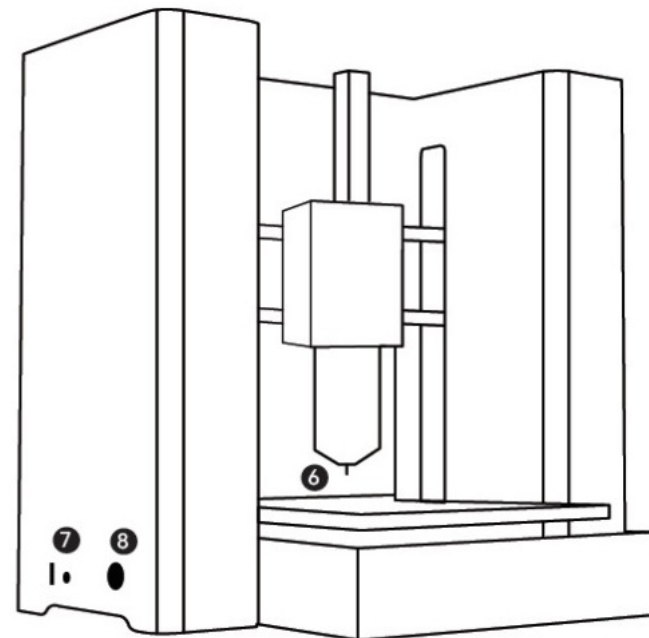
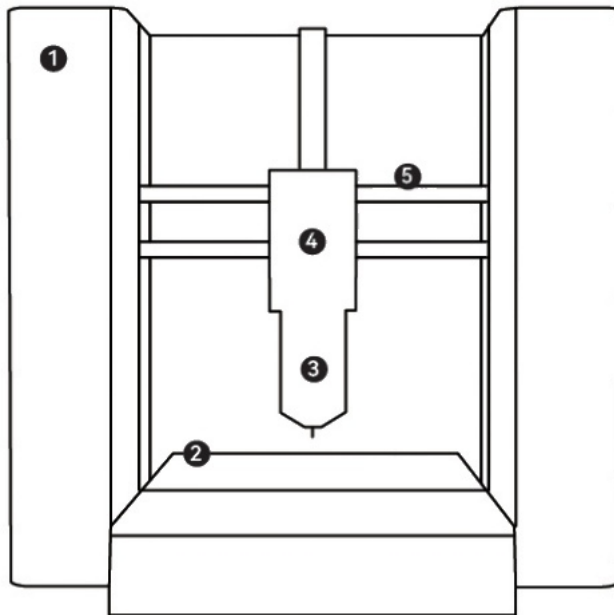
4、 Equipment motor

5、 Print move axis (xyze axis)

6、 Print needle

7. Power interface

8. Mechanical switch



◆ Product Parameter

Dimensions: 420mm x 380mm x 450mm

Net weight: 15KG

Power: 115W

Voltage: 100V-240V

Print size: 40mm x 40mm x 35mm

Print precision: 0.15-1.2mm

Positioning accuracy: 0.1/100mm

Print speed: 15-70mm/s

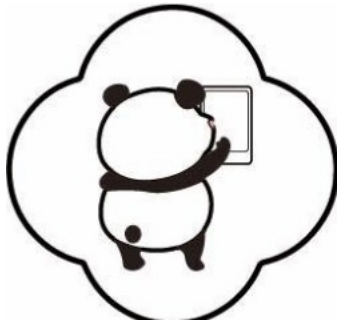
Nozzle diameter: 0.8mm
(standard)

Number of nozzles: 1

Print material: Chocolate

Material: Sheet metal, Acrylic

◆ Device Print Process



① Select the model to print



② Insert tray



③ Waiting for print completion

Frequently Asked Questions and Self-Check Items

Q1. How to Resolve the Device's Inability to Print?

A1、

- ① Check the device background to see if there are queued tasks
- ② Check if the device is low on materials. [This occurred with multiple queued tasks during previous printing]
- ③ Check whether the tray is properly inserted or replace it with a new one.
- ④ The Z-axis does not return to the origin and does not print. This is caused by low ambient temperature. You can power off the device completely, wait for 30 seconds, and then restart it.
- ⑤ If the device is inserted into a tray or a partially built model is on the tray, remove the original tray and insert a new one to check if the device continues printing.
- ⑦ Check if the device QR code or serial number matches the backend

Q2. How to Resolve Printing Failure?

A2、

- ① Excessive ambient temperature prevents chocolate from solidifying [the printed model may retain normal contours but exhibit a soft texture]
- ② Check whether the extruded chocolate threads are uniform and continuous cylindrical. If there are intermittent breaks, uneven thickness, or non-cylindrical shapes, try replacing the needle and print again.
- ③ The chocolate material may contain bubbles. If only part of the model fails to print and the device outputs thread normally, this could be the issue. Try printing again.
- ④ The preheating and printing temperature settings are too high, resulting in thread collapse, fusion (blurring), or failure to form clearly when overlaid with the upper layer.
- ⑤ Printing height issue [The Z-axis zero point has debris causing printing height issues. Clear debris from the zero switch, reset the printing height, and try printing again]
- ⑥ If the thread does not come out smoothly, check the following items in order:
 - a. Check if the device has reached the 1-hour warm-up time.
 - b. Check if the preheating and printing temperature settings meet the official requirements of the chocolate consumables currently in use.
 - c. Check whether the chocolate is stored at the recommended ambient temperature and ensure it is within the shelf life.

Frequently Asked Questions and Self-Check Items

Q3. How to Resolve Equipment Failure to Discharge Material?

A3 ① Check if the device's needle is damaged, deformed, or clogged. If any issues are found, replace the needle or clean the existing one before printing. ② Ensure the device has not completed preheating after startup [The device requires approximately 1 hour to warm up before printing].

Q4. How to Resolve the Device Power-off Issue?

A4、

- ① Check if the power outlet (or wall outlet) connected to the device is properly powered.
- ② Check if the connected tablet is working properly

matters need attention

- 1、 Do not attempt to operate this device using any method not described in the instructions to avoid accidental personal injury and property damage.
- 2、 Do not place this device near flammable or explosive materials or high heat sources. Keep it in a well-ventilated, cool, and dust-free environment.
- 3、 Do not place the printer in a vibrating or unstable environment, as it may affect print quality.
- 4、 Do not use third-party power cords during installation. Always plug the power cord into a socket compliant with national standards.
- 5、 Do not wear cotton gloves when operating the printer to prevent hands from being caught, squeezed, or cut by moving parts.
- 6、 Do not bring any part of your body close to the moving nozzle or printing platform while the machine is printing, to avoid burns or injuries from compression or impact.
- 7、 Please note the storage conditions and expiration dates of printing consumables. Once expired, they must not be used for printing or consumption. Any equipment damage, health and safety issues, or other consequences resulting from the use of expired consumables shall be the sole responsibility of the user.
- 8、 Do not remove machine screws by yourself, as it may cause personal injury such as electric shock.

matters need attention

- 9、 Printing consumables shall be stored in a dry, well-ventilated, and odor-free environment, and direct sunlight or high-temperature storage must be avoided. Any food safety issues resulting from improper storage of consumables shall be the responsibility of the user.
- 10、 Please use the manufacturer's original or approved chocolate ink cartridges to avoid compromising print quality or damaging the printer. Any printer damage or malfunction caused by using non-approved cartridges will not be covered by our warranty, and the user shall bear all associated repair costs and losses.
- 11、 After completing the device installation, contact the after-sales team for training. Use the device only after the technician has adjusted its parameters to normal settings.
- 12、 Regularly clean the printer body with a dry cloth during power outages, and follow the operating instructions to clean the device needles and check for foreign objects on the belt.
- 13、 Children under 16 must use this device under adult supervision.
- 14、 Users shall comply with the relevant national laws and regulations of the country where the equipment is used, adhere to professional ethics, and fulfill safety obligations. It is strictly prohibited to use this product or equipment for any illegal purposes. In case of violation, the user shall bear all legal liabilities independently, and our company shall not assume any joint liability.

After Sale Regulations

I. Warranty Period

The warranty period of the whole equipment is one year. However, the following parts and conditions are not covered by the free warranty: equipment belt, nozzle assembly, tool accessories, printing consumables(including but not limited to chocolate,pallet,pallet cover),instruction manual,packaging materials, etc.

*For cases not qualifying for free warranty, our company provides paid repair services with corresponding fees.

2. Exclusions (This Product Is Not Eligible for Free Warranty Service Under Any of the Following Circumstances):

- 1、 Exceeding the warranty period;
- 2、 Failure to present valid purchase receipts, or discrepancies between the receipt information and product labels;
- 3、 damage caused by failure to use, maintain, or service the product as required by the product instructions;

after sale regulations

- 4、 Any damage or malfunction caused by unauthorized disassembly, repair, modification, or adjustment of the system's software or hardware without our authorization.
- 5、 Damage caused by collision, fall, water ingress or other human factors;
- 6、 Disasters caused by the user's own purchase of spare parts for assembly or replacement.
- 7、 Damage caused by force majeure factors such as fire, lightning, earthquake, and flood;
- 8、 normal wear, aging or appearance damage caused by normal use of the product;
- 9、 Random complimentary gifts or accessories;
- 10、 Equipment damage caused by using non-original or non-approved printing consumables.

III. Repair Transportation

For shipping details of returned products to Hangzhou Pandata Technology Co., Ltd., please refer to the specific content in the subsequent [Other Notes]. If you choose express logistics, please consult the after-sales customer service in advance for mailing information.

IV. Access to After-Sales Service

Call 400-777-8285 or add our customer service WeChat for after-sales support.

V. Other Notes

- 1、 If the technical support engineer determines that the issue stems from hardware defects, you may need to return the product or components to our after-sales service center. To prevent damage during transit, we recommend using the original factory packaging and ensuring the foam padding is securely sealed. Any damage incurred during shipping will be the user's responsibility.
- 2、 We typically complete testing or repairs within 10 business days (excluding public holidays and statutory holidays) after confirming product receipt.

after sale regulations

- 3、 During the warranty period, the manufacturer shall cover the return-to-factory repair costs incurred due to equipment quality issues. For damages not attributable to equipment quality (e.g., those caused by improper use, accidents, or human factors), the user shall bear the return-to-factory repair costs.
- 4、 If the user requires on-site services, inspections, or repairs, all associated travel expenses shall be borne by the user.
- 5、 Overseas users are responsible for their own round-trip transportation, customs clearance, tariffs, and other related expenses.
- 6、 No returned equipment will be accepted without valid reasons.
- 7、 For details on other after-sales services, please contact our customer service. The current policy is subject to Hangzhou Pandar Technology Co., Ltd.'s official guidelines.

Disclaimer

Thank you for purchasing Hangzhou Pandar Technology Co., Ltd.'s products. This document addresses your safety and legal rights, while clarifying relevant responsibilities. Before using the product, please read this carefully to ensure proper configuration. Failure to follow the instructions and warnings may cause harm to you or others, or damage the product and other items.

Hangzhou Pandar Technology Co., Ltd. reserves the right to interpret this document and all related materials concerning the "Chocolate 3D Printer" product. By using this product, you acknowledge that you have carefully read the disclaimer and warnings, and fully understand, accept, and agree to all terms and conditions herein. You undertake full responsibility for the use of this product and any consequences arising therefrom. You agree to use this product solely for legitimate purposes and to comply with these terms, as well as any relevant regulations, policies, and guidelines established by Hangzhou Pandar Technology Co., Ltd.

Hangzhou Pandar Technology Co., Ltd. shall not be liable for any losses directly caused by users' failure to comply with this document and related instructions. The company reserves the right to amend this statement, with revisions taking effect upon official release. For the latest policies, please contact our after-sales customer service. All product names and brands mentioned herein are trademarks or registered trademarks of Hangzhou Pandar Technology Co., Ltd.



Hangzhou Panda-3d Technology Co., Ltd
Add.: 5th Floor, Building A5,Cainiao Zhigu Phase I,
Yuhang District ,Hangzhou, Zhejiang,China
Tel: 400-777-828
Web: www.en.panda-3d.com Web: www.en.panda-3d.com



YouTube

Follow our Y o u T u b e

Account for more information