Bewinner Bewinneru2pc683hg4-15

Bewinner Mini 3D Printer Instruction Manual

Model: Bewinneru2pc683hg4-15

1. Introduction

Thank you for choosing the Bewinner Mini 3D Printer. This compact and user-friendly 3D printing machine is designed for high accuracy and fast heating, making it suitable for educational purposes and innovative projects. This manual provides essential information for setting up, operating, and maintaining your 3D printer to ensure optimal performance and longevity.

2. Important Safety Information

- Always operate the printer in a well-ventilated area.
- Keep the printer away from flammable materials and heat sources.
- Do not touch the nozzle or print bed during operation or immediately after, as they can reach high temperatures and cause burns.
- Ensure the power adapter used matches the specified voltage and current: **Voltage: 12V & Current: >2A**. Using an incorrect adapter may damage the device or pose a safety risk.
- Keep children and pets away from the printer during operation.
- Unplug the printer from the power source before performing any maintenance or cleaning.

Image: Close-up of the nozzle assembly, highlighting the important safety warning regarding hot surfaces and power adapter specifications.

3. Package Contents

Verify that all components are present in your package:

- 1 x X Axes
- 1 x Z Axes
- 1 x Y Axes and Platform
- 1 x Control Box and Printing Head
- 1 x Filament Holder
- 1 x Z Axes Bracket

- 1 x PLA Filament (sample)
- 1 x Screwdriver
- 2 x Manuals
- 1 x Adapter

Image: All included components laid out, showing the X, Z, Y axes, control box, filament holder, sample PLA filament, screwdriver, and power adapter.

4. Setup and Assembly

The Bewinner Mini 3D Printer is designed for user-friendly setup. Follow these steps to assemble your printer:

1. **Unpack Components:** Carefully remove all parts from the packaging and verify against the package contents list.
2. **Assemble Axes:** Connect the X, Z, and Y axes components as indicated in the supplementary manual provided. Ensure all connections are secure.
3. **Attach Control Box and Printing Head:** Secure the control box and printing head assembly to the main frame.
4. **Install Filament Holder:** Mount the filament holder in its designated position.
5. **Connect Power:** Connect the provided power adapter to the printer and a suitable power outlet. Ensure the power adapter meets the specified voltage and current requirements (12V, >2A).

4.1. Print Bed Leveling

Print bed leveling is a critical step for successful prints. Incorrect leveling can lead to print failures or damage to the printer.

- Press the home switch to initiate the leveling process.
- As the printhead moves and touches the magnetic plate, **immediately disconnect the power**. This action sets the initial Z-axis home position.
- If the nozzle is too close to the magnetic plate, it may crush and damage the plate.
- If the nozzle is too far from the magnetic plate, the printed model will not adhere properly.
- Adjust the leveling screws under the print bed as needed to achieve the correct distance between the nozzle and the print bed. A piece of standard paper should slide with slight friction between the nozzle and the bed.

Image: Close-up view of the magnetic print bed, showing the textured surface and the adjustable leveling screws.

5. Operation

This 3D printer is designed for ease of use, even for beginners.

5.1. Filament Loading and Unloading

- **Loading:** Press the **+** key on the printer's control panel. The nozzle will heat up, and the extruder will begin to pull the filament. Gently feed the 1.75mm PLA or TPU filament into the extruder until it catches and starts extruding from the nozzle.
- **Unloading:** Press the **-** key. The nozzle will heat, and the extruder will reverse, allowing you to gently pull the filament out.

5.2. Starting a Print

- **Prepare Gcode Files:** Obtain your 3D model files (STL, OBJ) and process them using a slicing software such as Easyware, CURA, or Simplify3D. The output format should be Gcode.
- **Transfer Files:** Save the Gcode files onto a memory card (maximum 128GB).
- **Insert Memory Card:** Insert the memory card into the designated slot on the printer.
- **Select and Start:** Use the printer's controls to navigate to your desired Gcode file on the memory card and select it to begin printing. The nozzle will rapidly heat to 180°C in approximately 5 minutes for PLA material.

Image: The 3D printer in operation, producing colorful rocket models on its print bed.

Image: The 3D printer in operation, producing a translucent blue astronaut figure on its print bed.

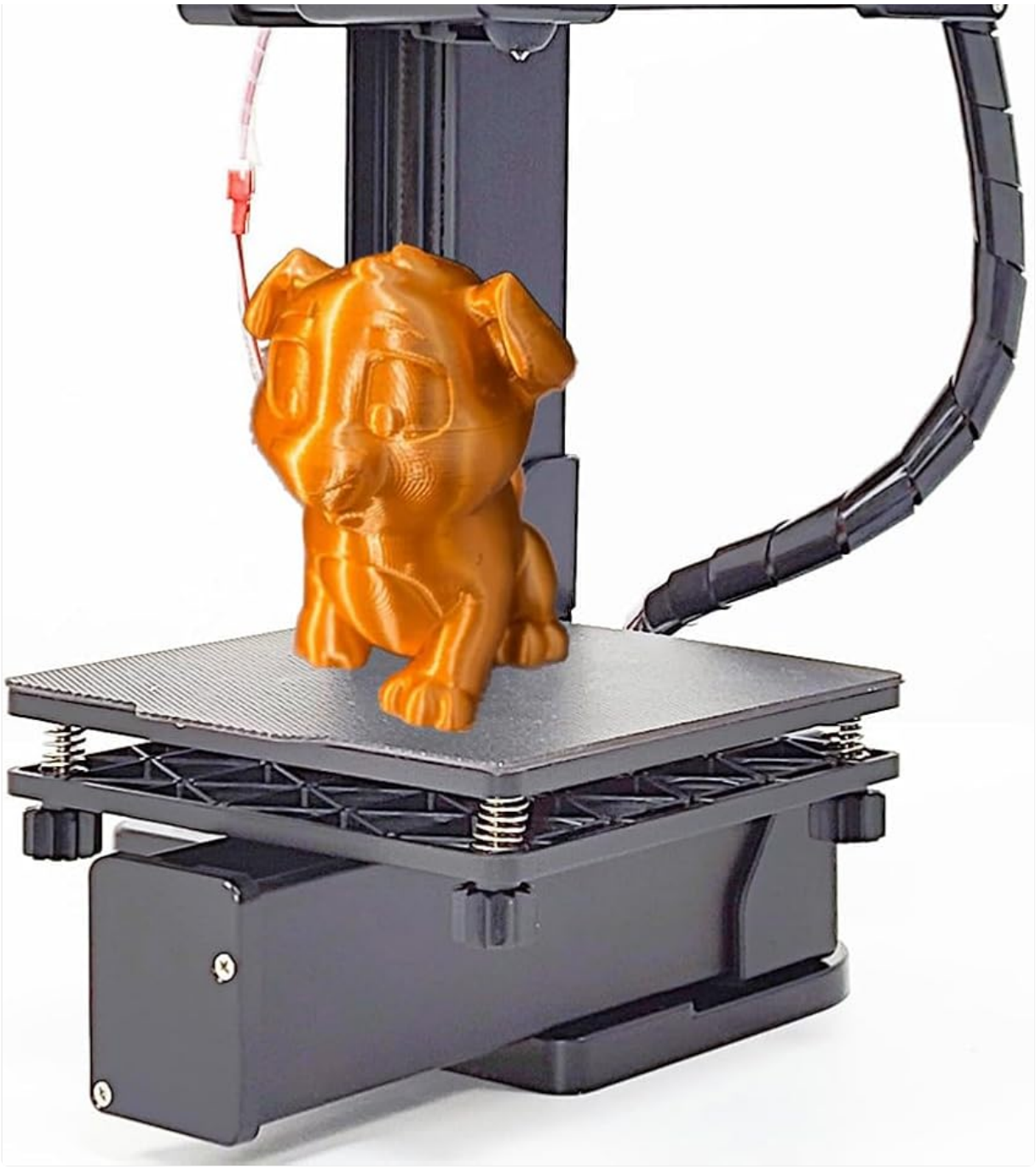

Image: The 3D printer in operation, producing a metallic brown dog figure on its print bed.

Image: The 3D printer in operation, showing a printed frog figure and highlighting the compact print size of 100x100x100mm.

6. Maintenance

Regular maintenance ensures the longevity and consistent performance of your 3D printer.

- **Clean the Print Bed:** After each print, allow the print bed to cool and carefully remove any residual filament or debris. A clean print bed is crucial for good first-layer adhesion.
- **Nozzle Cleaning:** If you notice clogs or poor extrusion, gently clean the nozzle. Refer to online resources or the supplementary manual for detailed nozzle cleaning procedures. Always ensure the nozzle is heated before attempting to clean it.
- **Lubricate Moving Parts:** Periodically check and lubricate the linear rods and lead screws with appropriate lubricant to ensure smooth movement of the axes.
- **Store Filament Properly:** Store unused filament in a dry, cool place to prevent moisture absorption, which can degrade print quality.

7. Troubleshooting

Here are some common issues and their potential solutions:

- **Model Not Sticking to Print Bed:**
  - Ensure the print bed is properly leveled (refer to Section 4.1). The nozzle might be too far from the magnetic plate.
  - Clean the print bed thoroughly.
  - Increase the print bed temperature slightly (if applicable and supported by your filament).
- **Nozzle Clogging:**
  - Check if the filament is tangled or obstructed.
  - Perform a cold pull or use a needle to clear the nozzle.
  - Ensure the correct printing temperature for your filament type.
- **Poor Print Quality (Layer Shifting, Stringing):**
  - Check belt tension on X and Y axes.
  - Ensure the printer is on a stable surface.
  - Adjust retraction settings in your slicing software to reduce stringing.
- **Printer Not Powering On:**
  - Verify the power adapter is correctly connected and meets the specified voltage and current requirements.
  - Check the power outlet.

8. Specifications

Technical specifications for the Bewinner Mini 3D Printer:

Feature	Specification
Item Model Number	Bewinneru2pc683hg4-15
Machine Size	Approx. 155 x 175 x 210mm / 6.1 x 6.89 x 8.27in
Printing Size	Approx. 100 x 100 x 100mm / 4 x 4 x 4in
Nozzle Diameter	Approx. 0.4mm / 0.016in
Nozzle Temperature	180-230°C
Printing Speed	10-40mm/s
Supported Materials	TPU, PLA (1.75mm)
Connection	Memory Card (Maximum 128G), USB Cable
Supported Operating Systems	for Windows 7, 8, 10 (32 Bit, 64 Bit), for OS X
Slicing Software	Easyware, CURA, Simplify3D
Filament Format Input	STL, OBJ
Filament Format Output	Gcode
Item Weight	2.38 pounds
Material	ABS

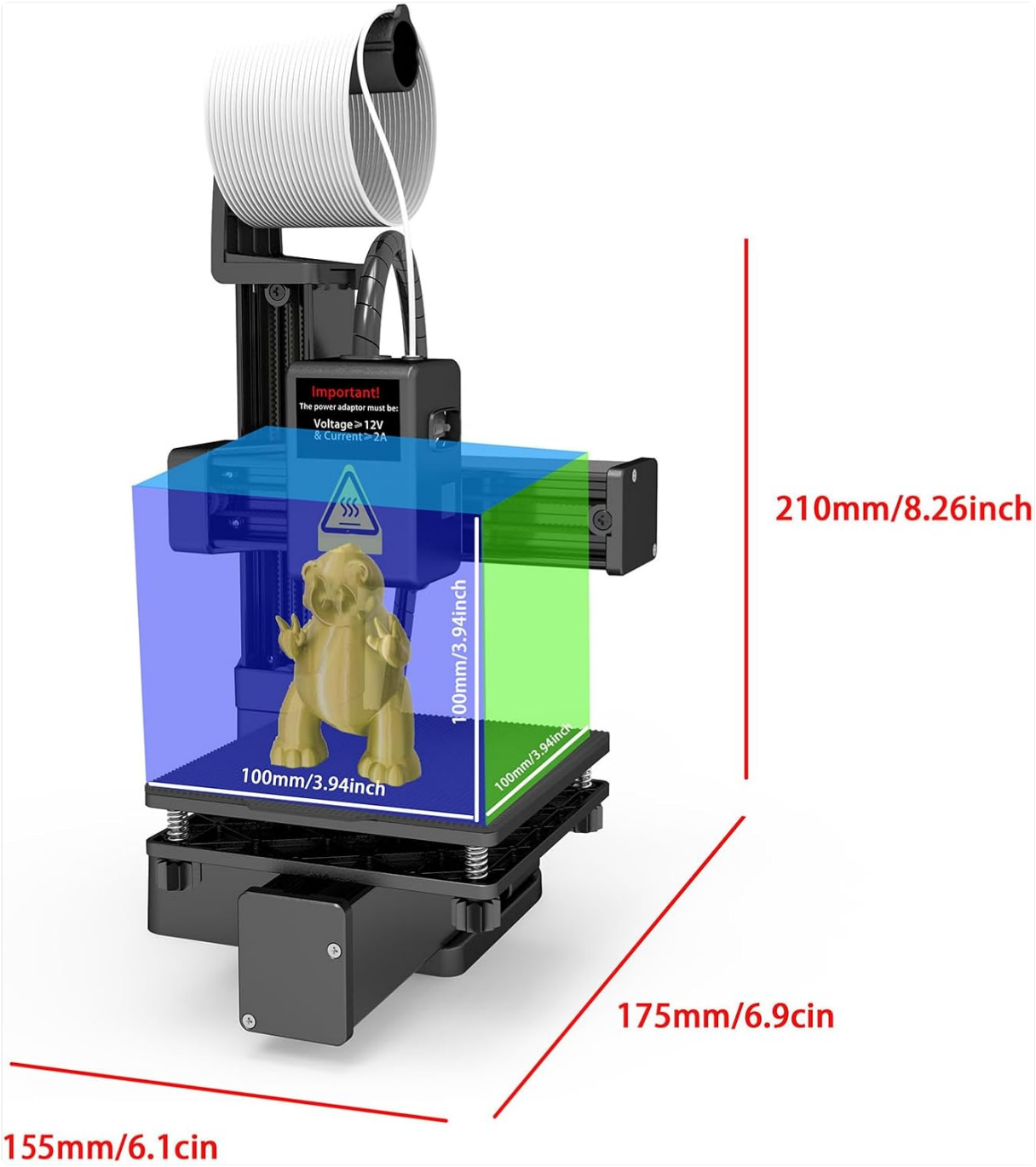

Image: Dimensional drawing of the 3D printer, illustrating its compact size and print volume.

9. Warranty and Support

For warranty information or technical support, please refer to the specific warranty card included with your product or contact the seller directly. Keep your purchase receipt as proof of purchase.