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⚠️NOTICE⚠️

📣 If you are a beginner of 3d printer, please carefully read the 👉 📖 Step-by-Step Guide, and following the steps to do step by step.

📣 If you are experienced on 3d printer, please also briefly read the 👉 📖 Step-by-Step Guide at least, and ensure that you have known the E4 operating principle of hot end, Precautions and methods for loading filaments to the hotend.

Download Z9V5-MK4 files

- ⬇️ **Download all documents from github**
- ⬇️ **Download document from cloud disk - google driver**
- ⬇️ **Download document from cloud disk - Jianguoyun**

Documents

📖 Contents

- **Installation and operation guide**
- **Test gcode files**
- **Video tutorial for installation, operation and step-by-Step guide**
- **Slicing software user guide and slicing software download link**
- **Control board firmware ,source code, firmware uploadling guide and download link**
- **FAQ, Maintenance manual, etc.**
- **Print parts stl files, introduction to upgradeable functions, etc.**

1. Installation and User Guide

- 📖 **Installation and user guide**
- 📖 **LCD screen menu description**
- 🎥 **Installation video tutorial**
- 🎨 **Wiring diagram**
- 📖 **E4 Hotend user guide**

- 📄 **Advanced features guide**

2. Test Gcode

📝 **What Is G-code In 3D Printing?**

G-code is information, or instructions that 3d printer requires in order to print a 3 dimensional object, it is the langurage of the 3d printer can understand. G Code is generated by your slicing software, by translating a standard 3D modelling file such as an STL file into the code that your specific 3D printer will understand.
📄 **Reference 1** 📄 **Reference 2**

📖 **File list**

- ⬇️ **xyz_cube.gcode**: A simple test gcode file for verifing if the machine is working well.
- ⬇️**TempCal_PLA.gcode**: A test gcode file to check the best printing temperature of your PLA filament
- ⬇️ **1C/3DBenchy.gcode**: A classic printing performance test file, one color
- ⬇️**1C/dog.gcode**: A classic printing quanlity test file, one color
- ⬇️**E4_4C/Z9E4_4CTest.gcode**: A base 4 colors test file
- 📄 More gcode file, please refer to 👉 **here**

3. Video Tutorial

NOTE: The video tutorial may be a little different with your machine because of firmware version is different, for reference only

Installation and Operation Guide

- 🎥 **Installaltion**
- 🎥 **Turn On / Turn Off the printer**
- 🎥 **Bed leveling**
- 🎥 **How to load Filament - for one color printing**
- 🎥 **How to load Filament - for multi colors printing**

Advanced features

- **Bed auto leveling.** Bending of the 3D printer's hotbed is unavoidable. When you are printing a print with a large bottom, you need to use the hotbed auto-leveling feature to correct the curvature of the hotbed. For how to use, please refer to 📖 **User Guide** or 🎥 **Video tutorial**

- **Power auto shutdown after print finished.** Usually 3D printing takes a long time, you can enable this feature to let the machine turn off automatically after the printing is finished to save energy. For how to use, please refer to 🎥 **Video tutorial**

- **Filament run out detect.** Sometimes there is not enough filaments left in the filament roll to complete the current printing. At this time, you can pass the filament through the Filament-Run-Out-Detector and enable the **run-out** feature on LCD screen. The machine can detect that the filament are out and

pause the printing, and then resume the printing process after you replace a new filament roll. For how to use, please refer to 🎥 **Video tutorial**.

⚠️ If you're sure that the filament is enough, do not pass the filament through the **Filament Run Out Sensor**.

⚠️ If the position of the pause after detecting the filament run out is just on the surface of the prints, the pause may cause some obvious defects on the prints.

- **Power losss recovery.** If your power supply network has frequent power outages, you can enable the automatic power losss recovery function before start printing. When the power goes out and it resumed, you can press the DC switch to turn on the power of the machine, and then the machine will automatically detect the printing breakpoint and provide you with whether you need to continue printing. For how to use, please refer to 🎥 **Video tutorial**.

  ⚠️ Breakpoints data and gcode files will be stored on the SD, must keep the SD card in socket when turn on the machine after power resumed.

  ⚠️ Power losss recovery feature may introduce some imperfections on the prints when printing is resumed.

4. Slicing

📝 What is slicing In 3D Printing?

Slicing is a piece of software that everyone uses when creating objects and products on a 3D printer. The software gives the printer a path to follow. The slicing software takes your image and converts it into G codes that your 3D printer can understand. These G codes are a type of instruction on how the printer needs to print your design. 📄 **Reference 1** 📄 **Reference 2**
Please download the slicing software and install to your PC, and then read the guide or video tutorial to study how to slicing.

- ⬇️ **Download Slicing Software**
- 🎥 **How to download and install slicing software**
- 📖 **PrusSlicer User Manual** 📘 **pdf file**
- 🎥 **Slicing guide - for one color printing**
- 🎥 **Slicing guide - for multi colors printing**
- 🎥 **Slicing guide - Convert one color 3d file to multi colors**
  🌟 **For the newest slicing guide and more slicing software user guide, please click here** 👉 **slicing guide**

5. Firmware

- **Firmware bin file**
- **Firmware source code**

📝 What is bin file and source code?

> **Firmware bin file** is the exact memory that is written to the embedded flash.
> **Firmware source code** is the core part of the firmware. The entire firmware can be thought of as

> different sub modules. It is divided into many sub files. These files are called source files. And, the entire program files are called source file or source code. Now our firmware source code is base on **marlin**.

6. FAQ

- 🎥 **How to replace nozzle**
- 🎥 **Machine auto test**
- 🎥 **How to adjust the pressure of extruder**

For more FAQ, please refer to here

7. Others

Print parts stl files

Optional upgrade kit / parts

👍 WiFi wireless control module

By upgrading this item, you can remote control your 3d printer by your PC or Mobile Phone.

- 📖 **User guide**
- 🎁 **Buy at our online store** / **Buy at Aliexpress**

👍 Mix color hotend

By upgrading this item, Z9V5 can support gradient color printing and printing more than 4 colors 3d objects.

- 📖 **User guide**
- 🎁 **Buy at our online store** / **Buy at Aliexpress**

🔥 Direct drive extruder

By upgrading this item, you can print flexible filaments (such as TPU).

- 📖 **User guide**
- 🎁 **Buy at our online store** / **Buy at Aliexpress**

🔥 High flow Hotend

By upgrading this item, the machine can print faster and support more types of high temperature filaments.

- 🎁 **Buy at our online store** / **Buy at Aliexpress**

🔥 Laser engine

By upgrading this item, you can turn your 3D printer into a simple laser engraving machine.

- 📖 **User guide**
- 🎁 **Buy at our online store** / **Buy at Aliexpress**

🆒 PEI Spring Steel Sheet Hotbed Sticker

PEI Spring Steel Sheet Hotbed Sticker is more durable than the original hot bed sticker. With the single side smooth hot bed facing up, it can also make the bottom of the print more smooth.

- 🎁 **Buy at our online store** / **Buy at Aliexpress**

🆒 Automatic Repeat Printing Module

By upgrading this item, enable your Z9V5 to realize continuous automatic printing (auto small scale mass produce) 3d prints.

- 📖 **User guide**
- 🎁 **Buy at our online store** / **Buy at Aliexpress**

🆒 More types of Hotend / Extruder

Each type of hot end has its advantages and disadvantages, you can choose different hotends according to different requirement.

- Fast printing
- Print flexible filament
- Support higher temperature filament (Max 260 degreeC)
- Print different types of filament Please refer to **here**