



Z9V5Pro-MK6 User Manual



WARNING

 If you are a beginner of 3d printer, please carefully read the Step-by-Step Guide, and following the steps to do. If you are experienced on 3d printing, please also briefly read the Step-by-Step Guide and ensure that you have known how to use the mixing color hotend correctly.

 All 4 filaments need to be loaded the hotend whatever printing one or multi color properly, incorrect operation may block the mixing color hotend. If the hot end blockage caused by incorrect operation, it is not covered by the warranty.

 **DONOT** pull out the "inner PTFE tubes" (the 4 white tubes with black fittings) from the M4V6 hot end.

-  [Step-by-Step Guide Online Document](#)
-  [Step-by-Step Guide PDF file](#)

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1. Installation guide

First, please refer to the following documents and videos to complete the installation and wiring of the machine.

Installation

-  [Installation Guide Online Document](#)
-  [Installation Guide PDF file](#)
-  [Installation Guide Video tutorial](#)



Wiring

-  [Wiring Guide Online Document](#)
-  [Wiring Guide PDF file](#)
-  [Wiring diagram](#)
-  [Wiring Video tutorial](#)

2. Operation Guide

Introduction to LCD Control Panel

After completing the installation and wiring, please take a look the below guide to know how to use the control panel (LCD Screen), and understand the functions of LCD menu generally.

-  [LCD Menu Online Document](#)
-  [LCD Menu PDF file](#)

Print your first works





Now you can try to print your "Hello word" works, before starting printing, you first need to make a simple correction to the height of the hot bed (it is called "bed leveling"), and then load the filaments into the extruder (please note that regardless of the color of your print, you need to load all 4 filaments into the extruders and hot end). Next, you can insert the SD card into the machine and choose a testing 3D model gcode file in the SD card. For details, please refer to the documents below.

-  [Operation Guide Online Document](#)
-  [Operation Guide PDF file](#)



More features



You can also read the following documents to gain a deeper understanding of the extruder (hot end and print head) used by your machine, as well as some advanced features of the machine.


-  [Mix color feature use guide](#)
-  [M4V6 Hotend introduction](#)
-  [Print From PC](#)
-  [Advance features use guide](#)

3. Test G-code file



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 language of the 3d printer can understand. G-Code is generated by your slicing software, by translating a standard 3D modelling file such as STL, object, AMF file etc..  [Reference 1](#)  [Reference 2](#)

We stored some test gcode files in SD card, to help verify whether the machine was working properly or to demonstrate what printing functions this machine has. If you can't find the test gcode files in the SD card, please download from  [here](#).

- **xyz_cube.gcode**: A simple test gcode file used to verify if the machine was working well.

- **dog.gcode**: A classic printing quality test file.
- **Vase.gcode**: A test vase.
 - **GradientMix_Vase.gcode**: A vase as the same with vase.gcode but enabled "gradient mix" feature.
 - **RandomMix_Vase.gcode**: A vase as the same with vase.gcode but enabled "random mix" feature.
- **M4_4CTest.gcode**: A base 4 colors test file for 3d printer with a M4 hot end.
- **M4_4C_BODY3D.gcode**: A bigger 4 color test file.
- **16color_tower.gcode**: A base 16 color test file to show the result of mixed different color filaments.
- **level_test_310.gcode**: A test file used to verify the Hot bed flatness (without bed auto leveling).
- **level_test_310-G29.gcode**: A test file used to verify the Hot bed flatness (with bed auto leveling).



[Download more test gcode files.](#)

4. Slicing



What is slicing In 3D Printing?

A slicer is toolpath generation software used in the majority of 3D printing processes for the conversion of a 3D object model to specific instructions for the printer. In particular, the conversion from a model in STL format to printer commands in g-code format in fused filament fabrication and other similar processes.

-  [Slicer User Guide Online Document.](#)
-  [Slicer User Guide PDF File.](#)

5. Firmware





What is firmware 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. Our firmware source code is base on [marlin](#).

You can download firmware bin file or source code from the below link.

-  [Firmware bin file](#)
-  [Firmware source code](#)

6. Troubleshooting



If you have any problems installing and using the printer, please try to find a solution from the 

[Troubleshooting Online Document](#) first. If you cannot solve this problem, please contact us by email ( support@zonestar3d.com).

7. Print Parts

There are several components on the machine that are printed, and we have also prepared some upgrades for you. If you like, you can download and print them and then install them on your machine.

Optional features

We have introduced some optional features for this machine, you can upgrade these features at any time according to your preferences. If you are interesting in this, please click  [Optional upgrade features](#)  pdf to get more detailed information.
