Auto leveling feaure user guide (Z9V5Pro)

Bed Leveling Sensor: ZL-Sensor

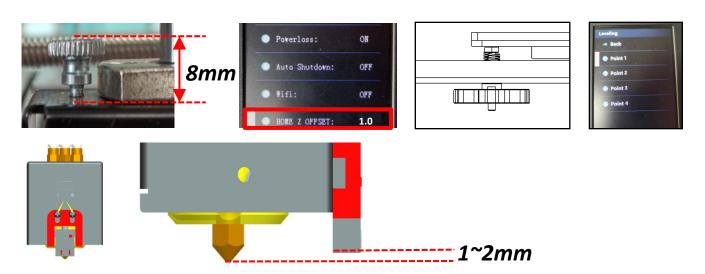
Firmware Version V2.0.0 or last

Note:

If the hot bed is enough level without auto leveling, don't use bed auto leveling feature, Bed automatic leveling will slightly reduce the printing quality and increase the printing time.

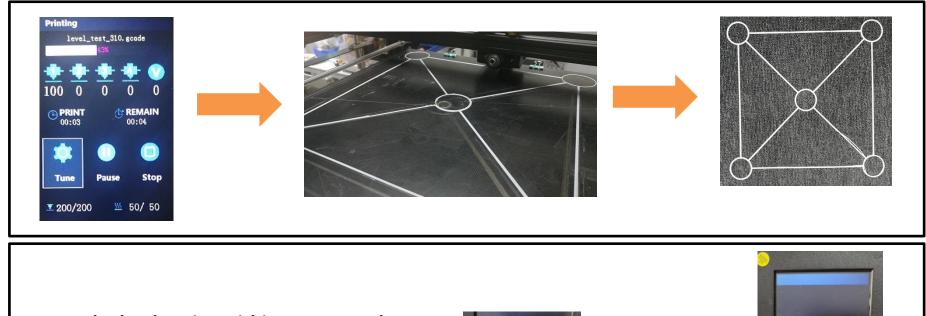
Prepare

- 1. Adjust the hotbed adjusting screws on the Z carrier to is about 8mm height.
- 2. Set MENU>>Config>>Configure>>HOME Z Offset: 1.0
- 3. Make sure the hotbed and nozzle are cool, clean the filament on the nozzle.
- 4. Turn on the 3d printer.
- 5. Do Prepare>> Bed Leveling>> Point1 ~ Point4.
- 6. Adjust the screws under the hotend, let the nozzle almost touch the bed at the four corners.
- 7. Check if the bottom of the leveling sensor is higher 1~2mm than the nozzle, move it if need.



Print test file

After leveled coners, please print "level_test_310.gcode" from SD card, and check if the hotbed is enough level.



Press the knob twice within one second to open the *babysteps* menu, and then rotate the knob to fine tune the distance from nozzle to hotbed.



NOTICE: if the hot bed is enough level, don't need to use bed auto leveling feature. You can ignore the below steps and start to print.

Auto Leveling >>> Catch Z offset

Step 1. Do Control>> Configure>> Auto Leveling: ON to turn on "Auto leveling" menu



Step 2. Do Prepare>> Bed Leveling>>Catch Z-Offset.



If Catcha Z offset is failed, to check:

- 1. The leveling sensor wire connect well?
- 2. The leveling sensor installed too high? The bottom of leveling sensor should be higher than the nozzle about 1~2mm.

Auto Leveling >>> Leveling measure

Step 3. Do Prepare>> Bed Leveling>>Auto Leveling.

After measure done, the state of Auto leveling on Leveling menu will change from Unactived to Actived.





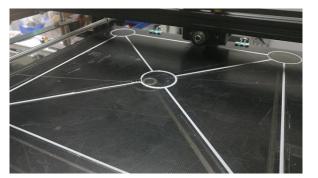




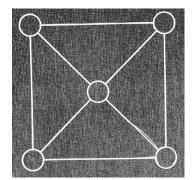
Step 4. Print the test file again refer to the page 4











Active auto leveling after printer reset

Auto leveling feature will be disable automatically when the printer reset, you can turn it on manually from LCD screen.

- Step 1. Menu>>Prepare>> Auto Home
- Step 2. Motion>> Control>> Configure>>Active autolevel: ON

NOTE: After do these 2 steps, the printer will apply stored leveling correction parameters in the last "bed level".



Also you can let the printer do bed auto leveling for each printing, only need to add a "G29" command (following the G28 command) in the "start gcode" of printer(machine) settings of the slicing software.

