**Update Log-Neptune3Pro&Plus&Max**

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## Compatibility

|  |  |  |
| --- | --- | --- |
| UI version | Board Firmware version |  |
| 1.4 | 1.x.4-1.x.5.1a | Historical version |
| V1.4.1 | 1.x.5.1a | Release version |
| V1.5-Beta | 1.1.5.2-1.1.5.3a | Beta version |

## Reminder:

1. Neptune3Pro&Plus&Max used the same screen firmware, and the screen firmware version was the same.
2. The motherboard firmware of Neptune3Pro&Plus&Max was compiled in the same source code, so the update log was the same. The firmware version is named 1.x.1.1, where ‘x’ represents the machine model, 1 represents Neptune3pro, 2 represents Neptune3Plus, and 3 represents Neptune3Max.
3. After updating the motherboard firmware, the leveling data will be reset. You need to reset the leveling data and set the Z offset before printing.
4. After reloading the board firmware, the leveling value will be reset. You need to re-level and set the Z offset before printing.

## Screen firmware update log

### UI Version : 1.4

1. Fix the problem of display crash and jam.
2. Add the blue screen prompt after detecting screen error.
3. Add screen standby function: On the home screen, tap【Settings】【Advanced Settings】. Then click the brightness bar next to "Little Sun" to convert to "moon" to enable. The brightness will automatically dim after 3 minutes.
4. Fixed some known bugs.

### UI Version: 1.5-Beta

1. Optimize on the basis of 1.4.

2. Add XYZ coordinate system on the home page.

3. Z-coordinate display precision to the percentile.

4. There is a compatibility problem with mainboard firmware earlier than 1.x.5.2, but it does not affect actual printing.

5. This version is beta and will continue to improve and add more features.

### UI Version: V1.4.1

1. Optimize on the basis of 1.4.
2. Compatible with motherboard firmware prior to 1.1.5.1a.
3. Solve the problem of synchronous switch between "broken material detection switch" and "prepare interface move button".

## Board firmware update log

### Board Firmware Version : 1.x.4

1. Add SD card read/write error warning.
2. Modify the default maximum acceleration: X1100 Y900 Z100 E1500.
3. Enable: Host Action Commands.
4. Enable: Hotbed PID, default value: M304 P97.10 I1.41 D1675.16.
5. Repair the error content of the hot end minimum temperature error displayed.

### Board Firmware Version : 1.x.4.1

1. Optimize on the basis of 1.x.4.
2. Disable: Hotbed PID.
3. which will solve the problem of frequent flickering of lights in 1.x.4 firmware.
4. After the printing is done, the Y-axis may have a backward problem when pulling out the TF card (This has been optimized a little.)

### Board Firmware Version : 1.x.5

1. Optimize on the basis of 1.x.4.1.
2. Enable：M303 - PID autotune.
3. Starting height of power recovery: more than 2mm.
4. Default Z Fade Height: 2mm. Reference: https://marlinfw.org/docs/gcode/M420.html
5. Support Gcode-M600 code to achieve pause.
6. Optimize the position of operation stop printing.
7. Fix some known bugs.

### Board Firmware Version : 1.x.5.1

1. Improvements from 1.x.5.
2. Enable: Linear Pressure Control V1.5 ,Default value: K0.0.

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### Board Firmware Version : 1.x.5.2

1. Improvements from 1.x.5. 1.
2. Fix the bug:Platform moving backward after removing TF card.
3. Fix the bug: When starting the machine, the screen keeps showing the "Update firmware" interface.
4. Fix the bug:The screen is powered off and the files in the file selection list are lost after being powered on again.

### Board Firmware Version : 1.x.5.3

1. Improvements from 1.x.5. 2.
2. Optimize read/write card.

### Board Firmware Version : 1.x.5.1a

1. Make firmware compatible with screen firmware version 1.4 and V1.4.1 (not compatible with screen firmware version 1.5-Beta) based on 1.x.5.3.
2. Fixed bug where print traffic could only exceed 100%. The limit is 50% to 150%.
3. Fixed: feed/return speed setting issue at the preparation interface.
4. Fixed a bug where the material was extruded when resuming printing after a pause.
5. Optimize movement steps when pausing and resuming printing.
6. Optimize the power continuation function.
7. Solve the problem that the screen can not be paused when it is powered on again after the power is down during the printing process.
8. Added :M355 instruction to control LED. https://marlinfw.org/docs/gcode/M355.html
9. Added :M300 command to control the buzzer (buzzer frequency is fixed). https://marlinfw.org/docs/gcode/M300.html

## Upcoming firmware update:

1. 支持文件夹打印。
2. 支持显示更多打印文件（过去的固件中只能显示25个打印文件）。
3. 风扇速度显示问题优化。
4. 屏幕背光问题优化。
5. 修复部分固件bug。