

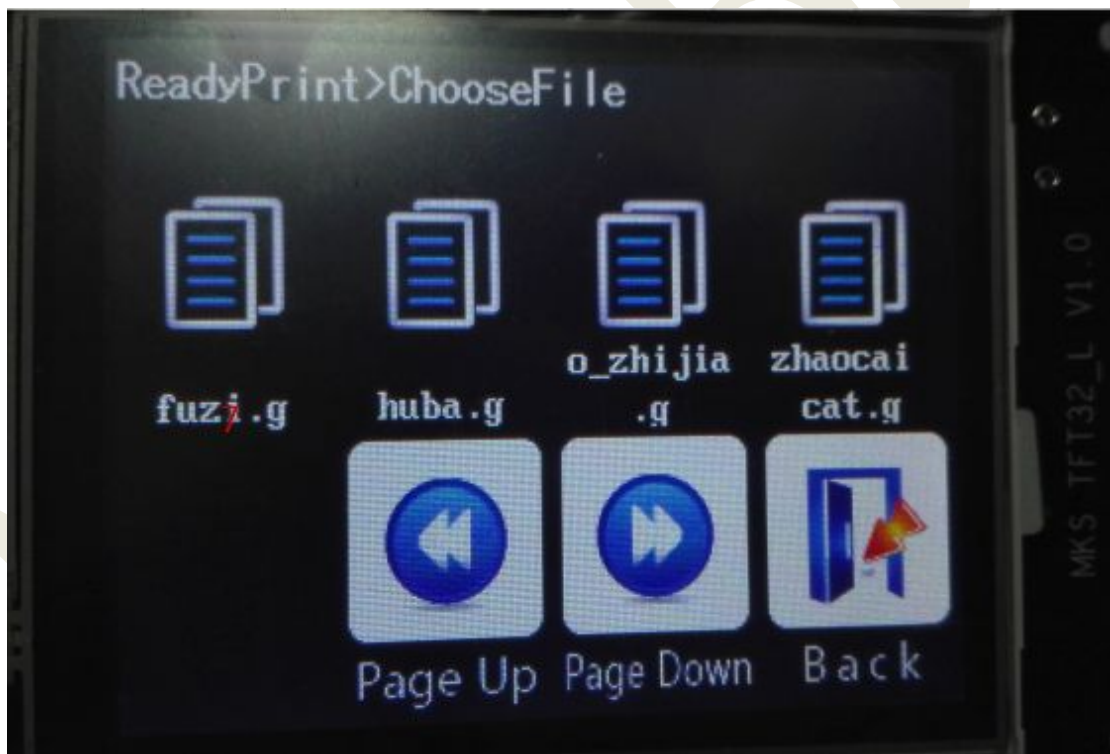
MKS TFT picture&logo Customization Manual

Here is the way to customize the picture and logo on the touch screen interface.

1.Creating range:

- a. Button images (see picture: "1")(including text and icon).
- b. Background color of screen(see picture : "3", default Black).
- c. Color of text on button (see picture: "4", default white).
- d. Background color of buttons (see picture: "5", default dark blue).
- e. Color of text . (see picture: "6" ,default white).
- f. Text color of file name, (see picture:"7",default white). We suggest the same color with button .
- g. Button defaults 3D effect ,that will turn up white border around it.

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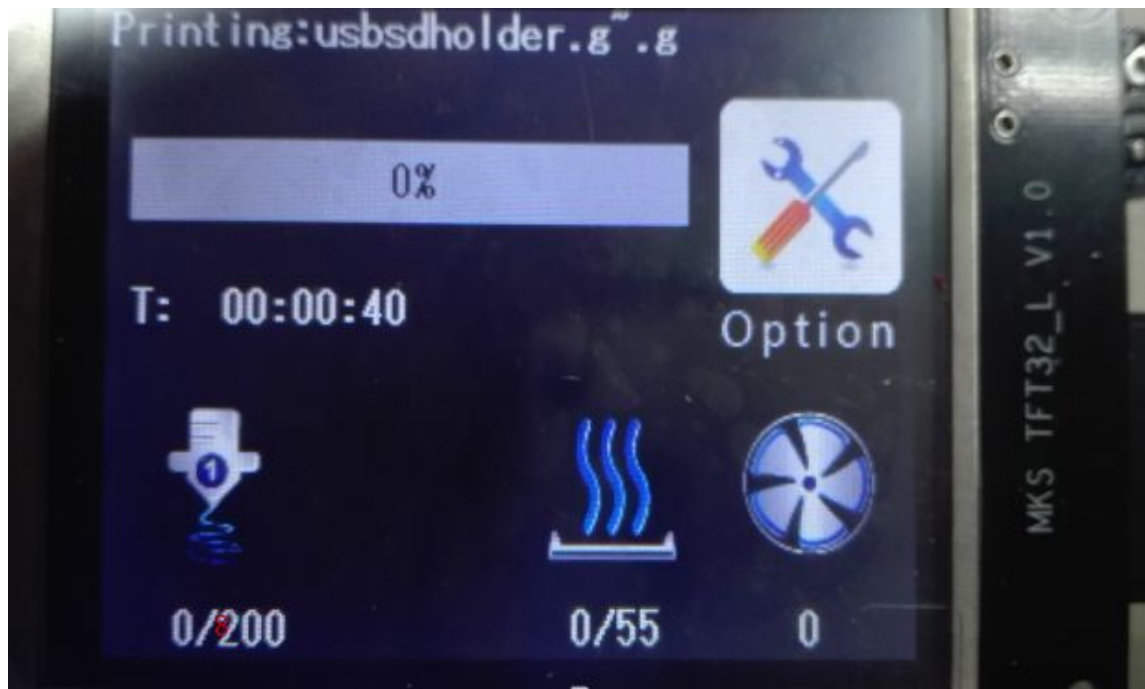


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2. Button image size, 16bpp, wide =78 pixels, high =104 pixels.
3. Logo image size, 16bpp, wide =320 pixels, high =240 pixels.
- 4.The custom image must be named after the appendix (see Appendix 1).
- 5.The color value is 16 binary, according to the 3 primary colors of blue, green, red order (see Appendix 2).
- 6.Sopport creating more function on "more" (7 buttons max).

Steps:

1. Image customization.
 - a. Install the "Image2Lcd" tool that we provide.

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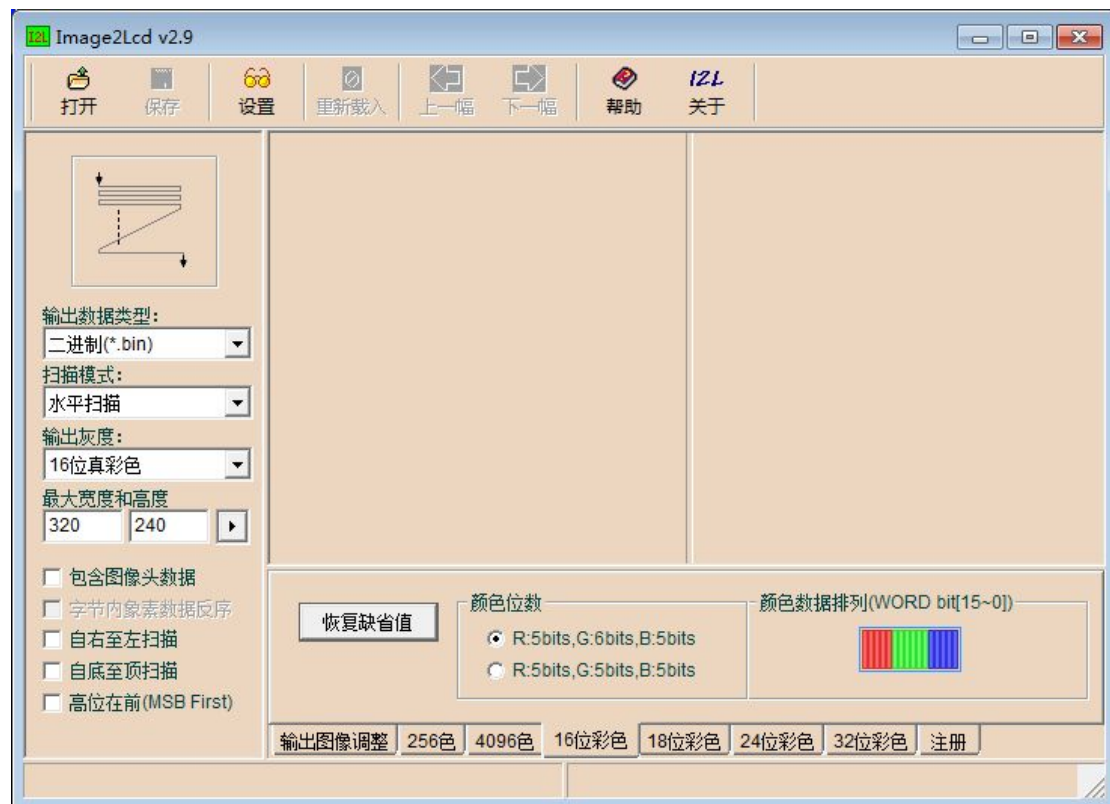
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b. Follow the following operation for each picture:

Open the Image2Lcd software and set as below:



Prepare “.bmp” format image, using the Image2Lcd to open it:

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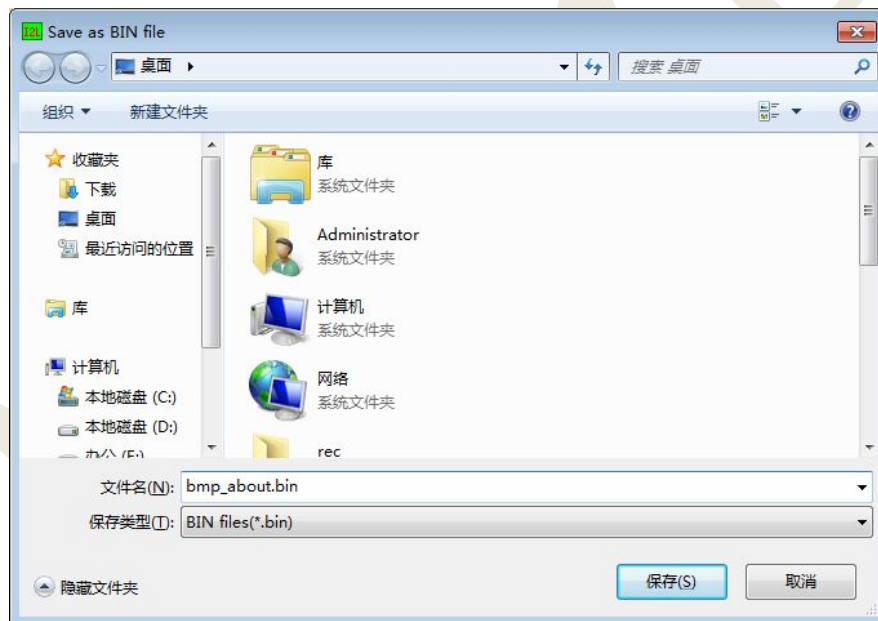
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Then, save the file with the name which we specify.



- c. Create a folder "mks_pic" in the root directory of SD card, and put all the .bin files into it.

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2. Screen background color customization

Find "cfg_background_color" in "mks _config.txt" ,then change the color value behind the colon you need, and save.

As follow:

>cfg_background_color:0xFF0015

3. Color of title text customization

Find " cfg_title_color" in "mks _config.txt" ,then change the color value behind the colon you need , and save.

As follow:

>cfg_title_color:0xFFFFFFFF

4. Background color such as temperature state customization

Find " cfg_state_background_color" in "mks _config.txt" ,then change the color value behind the colon you need , and save.

As follow:

>cfg_state_background_color:0x800000

5. Color of text such as temperature state customization

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Find " cfg_state_text_color" in "mks _config.txt" ,then change the color value behind the colon you need , and save.

As follow:

```
>cfg_state_text_color:0xFFFFFFFF
```

6. Customize the color of filename button in “file system” interface.

Find " cfg_filename_color " ,then change the color value behind the colon you need , and save

As follow:

```
>cfg_filename_color:0xFFFFFFFF
```

(The creating of other buttons and text is also the same)

7. Function button settings on the “more” menu;

a. Find " moreitem_pic_cnt " , then change the numbers value behind the colon you need , and save.(7 buttons max)

As follow:

```
>moreitem_pic_cnt:0
```

b. Adjust the command line behind the colon of “moreitem_button1_cmd” , and take it as your first function

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button. Each command must make interval with a semicolon ";" .
The whole button command lines will end up with newline. But
total characters for the command can not exceed 200.

As follow:

```
>moreitem_button1_cmd:G28 X;
```

```
>moreitem_button2_cmd:G28 X;
```

c. Other 6 buttons' creating are the same way.

8.Creating 3D effect on buttons

Modify value behind colon of "cfg_BUTTON_3D_effects" ,1 is yes.
0 is no .

As follow:

```
>cfg_BUTTON_3D_effects:0
```

9. Copy file "mks_config.txt" and "mks_pic" to SD card root
directory, insert SD card into MKS TFT, power on , then it will
upgrade automatically.

Appendix 1

Photo name

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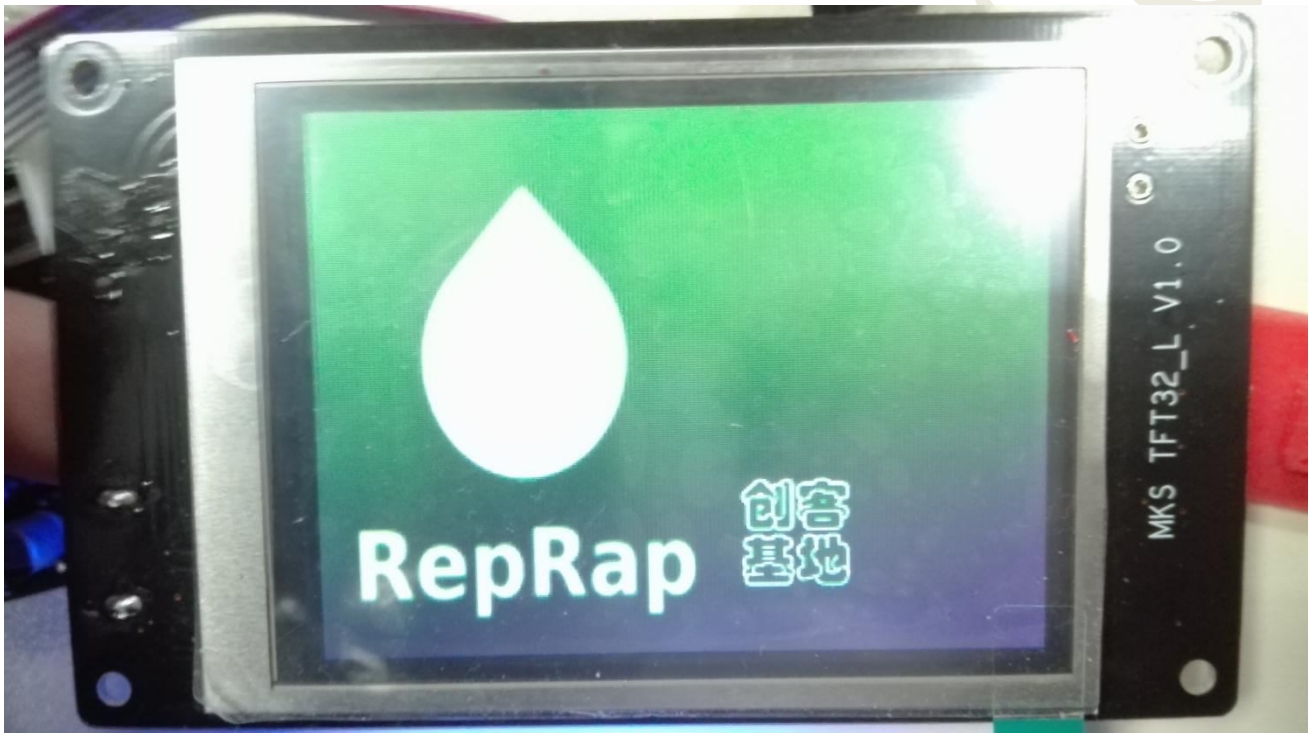
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1. logo: bmp_logo.bin



2. "Ready Print" interface:

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预热（PreHeat）： bmp_preHeat.bin	移动（Move）： bmp_mov.bin	回零（Home）： bmp_zero.bin	打印（printing）： bmp_printing.bin
挤出（extruder）： bmp_extruct.bin	风扇（Fan）： bmp_fan.bin	设置（Set）： bmp_set.bin	更多（More）： bmp_more.bin

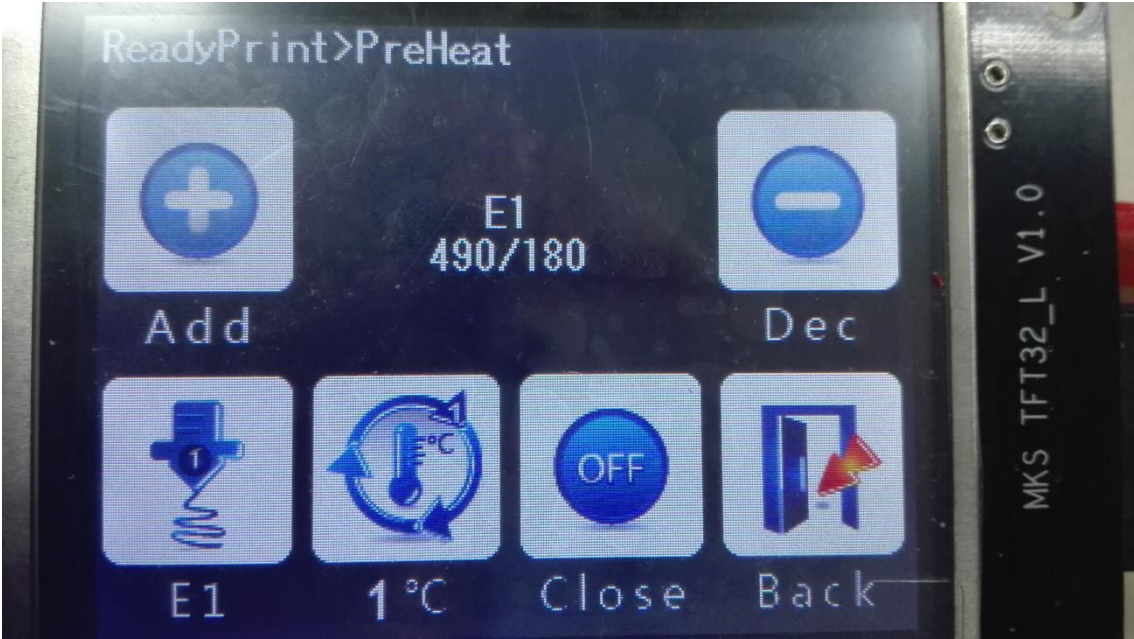
3. PreHeat Interface:

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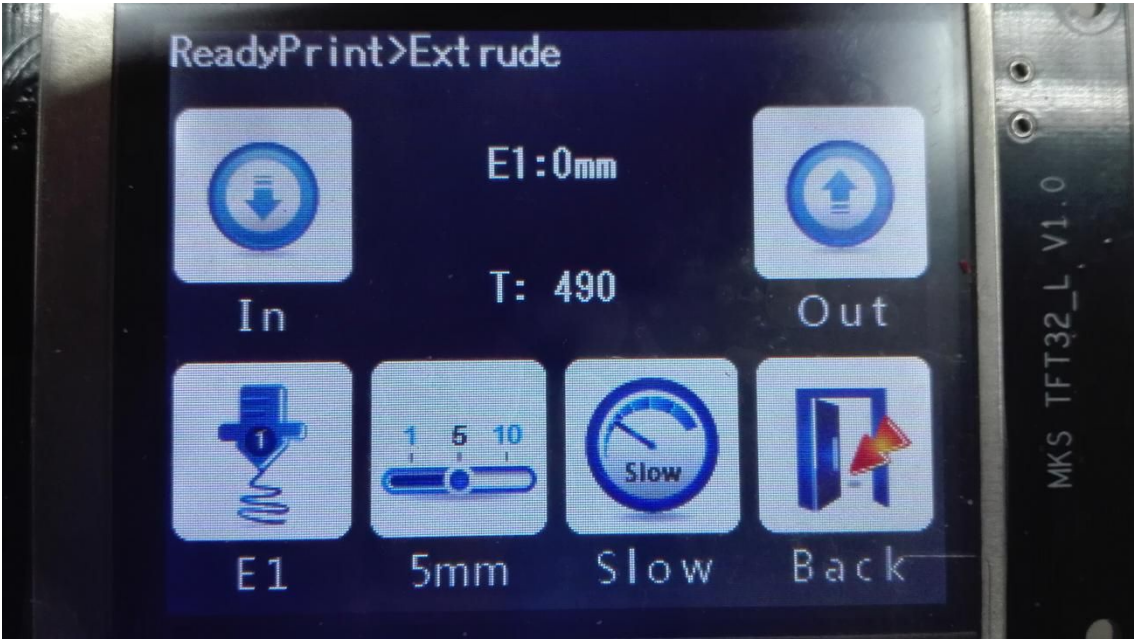
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Add（增加）： bmp_Add.bin			Dec（减少）： bmp_Dec.bin
Preheat target Heatbed（热床）： bmp_bed.bin Extruder1（喷头1）： bmp_extru1.bin Extruder 2（喷头2）： bmp_extru2.bin	Stepper: 1°C: bmp_step1_degree.bin 5°C: bmp_step5_degree.bin 10 °C: bmp_step10_degree.bin	Close（关闭）： bmp_speed0.bin	Back（返回）： bmp_return.bin

4. Extruder Interface



Material in（进料）： bmp_in.bin			Material out（退料）： bmp_out.bin
Extruder（挤出机）： E1: bmp_extru1.bin E2: bmp_extru2.bin	Stepper: 1mm: bmp_step1_mm.bin 5mm: bmp_step5_mm.bin 10mm: bmp_step10_mm.bin	Speed（变速）： Slow（慢速）： bmp_speed_slow.bin Normal（常速）： bmp_speed_normal.bin High（高速）： bmp_speed_high.bin	Back（返回）： bmp_return.bin

5. Move Interface

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X+: bmp_xAdd.bin	Y+: bmp_yAdd.bin	Z+: bmp_zAdd.bin	Stepper: 0.1mm: bmp_step_move0_1.bin 1mm: bmp_step_move1.bin 10mm: bmp_step_move10.bin
X-: bmp_xDec.bin	Y-: bmp_yDec.bin	Z-: bmp_zDec.bin	Back: bmp_return.bin

6. Home Interface:

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Home（归零）： bmp_zeroA.bin	X： bmp_zeroX.bin	Y： bmp_zeroY.bin	Z： bmp_zeroZ.bin
			Back（返回）： bmp_return.bin

7. Fan Interface

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Add（增加）： bmp_Add.bin			Dec（减少）： bmp_Dec.bin
Full Speed（全速）： bmp_speed255.bin	Half Speed（高速） bmp_speed127.bin	Close（关闭）： bmp_speed0.bin	Back（返回）： bmp_return.bin

8. Setting Interface

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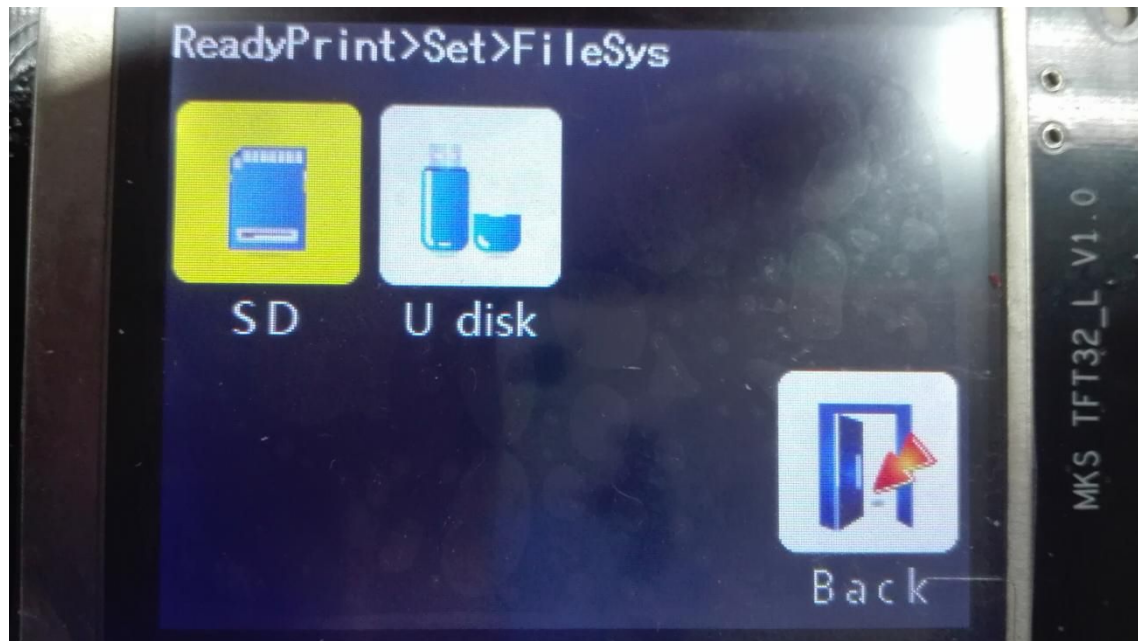
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File Sys（文件系统）： bmp_fileSys.bin	Calibration（触屏纠正）： bmp_adj.bin	Wifi： bmp_wifi.bin	Connection（连接）： bmp_connect.bin
About： bmp_about.bin	Leveling（调平） bmp_function1	Motor OFF（关闭电机） bmp_function2	Back（返回）： bmp_return.bin

9. File system Interface

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SD selection: Unselect: bmp_sd.bin Selected: bmp_sd_sel.bin	U-disk (U 盘) : Unselected bmp_usb.bin Selected :bmp_usb_sel.bin	
		Back (返回) : bmp_return.bin

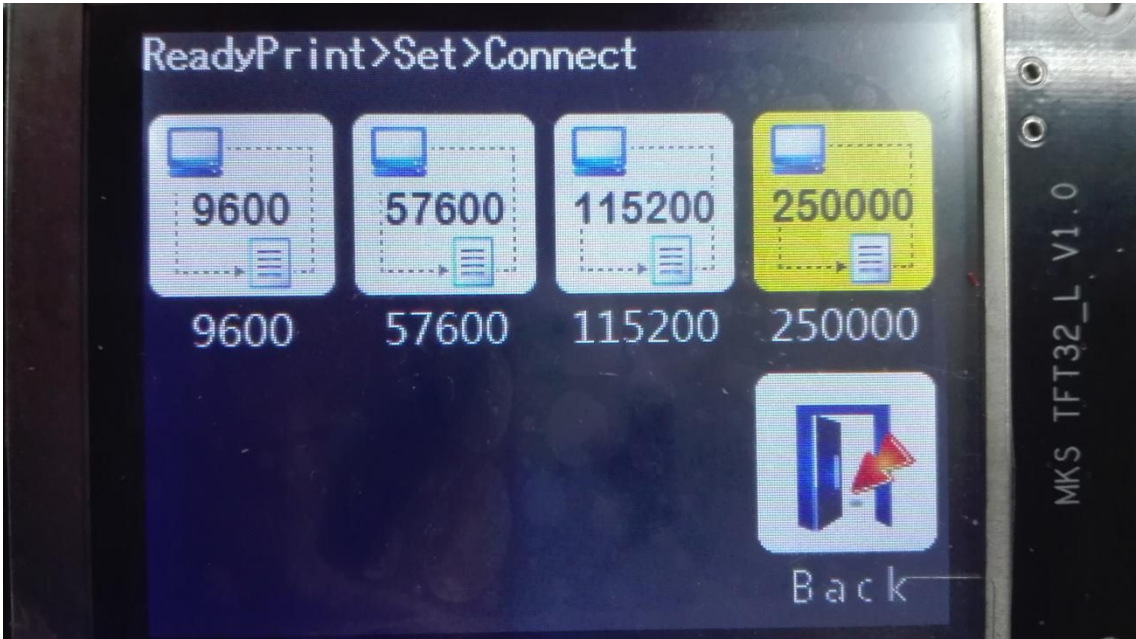
10.Connecting Interface

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9600: Unselected: bmp_baud9600 .bin Selected: bmp_baud9600_sel.bin	57600: Unselected: bmp_baud 57600.bin Selected: bmp_baud57 600_sel.bin	115200: Unselected: bmp_bau d115200.bin Selected: bmp_baud1 15200_sel.bin	250000: Unselected bmp_baud25000 0.bin Selected: bmp_b aud250000_sel.b in
			Back (返回) : bmp_return.bin

11. More Interface

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custom1: bmp_custom1.bin	custom2: bmp_custom2.bin	custom3: bmp_custom3.bin	custom4: bmp_custom4.bin
custom5: bmp_custom5.bin	custom6: bmp_custom6.bin	custom7: bmp_custom7.bin	Back（返回） : bmp_return.bin

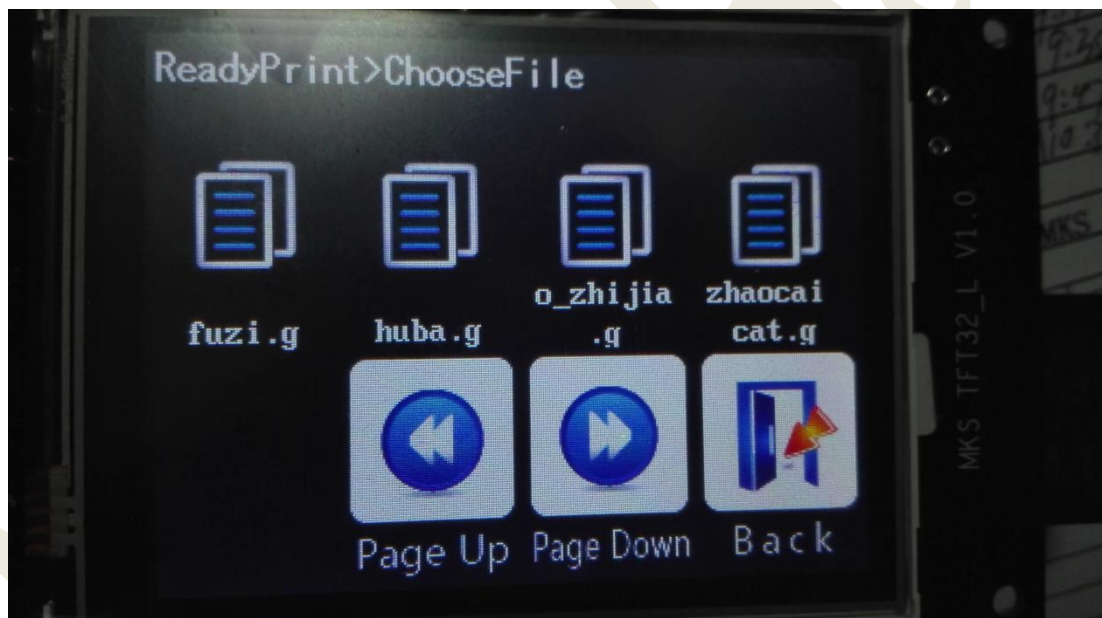
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11.“File System” Interface



File: bmp_file.bin Directory: bmp_dir.bin			
	page up: bmp_pageUp.bin	page down: bmp_pageDown.bin	Back: bmp_return.bin

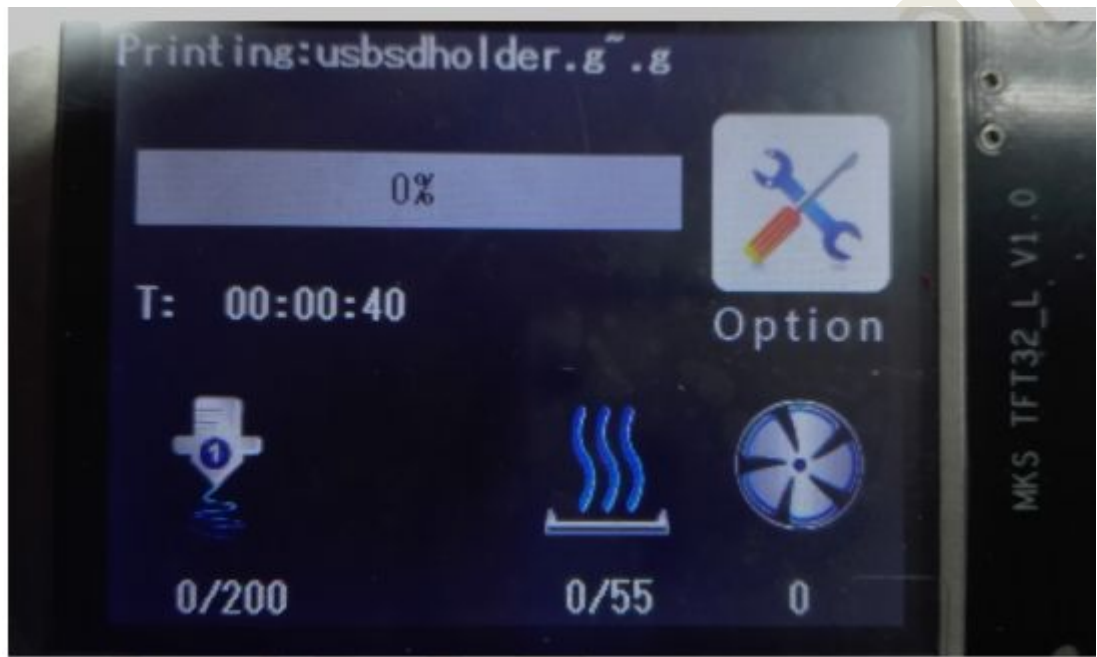
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12.Printing Interface



			Option: bmp_menu.bin
E1: bmp_extru1_no_ words.bin	E2: bmp_extru2_no_ words.bin	bed: bmp_bed_no_words. bin	Fan: bmp_fan_no_words.bin Fan move: bmp_fan_move.bin

13.Option Interface

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Pause（暂停）： bmp_pause.bin			Stop（停止）： bmp_stop.bin
Temperature（温度）： bmp_temp.bin	Speed（变速）： bmp_speed.bin	Fan（风扇）： bmp_fan.bin	Back（返回）： bmp_return.bin

14. Pause Interface

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Resume（恢复）： bmp_resume.bin			Stop 停止： bmp_stop.bin
Extruder（挤出机）： bmp_extruct.bin	Move（移动）： bmp_mov.bin	Fan（风扇）： bmp_fan.bin	Temperature（温 度）： bmp_temp.bin

18. Speed interface

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Add（增加）： bmp_Add.bin			Dec（减少）： bmp_Dec.bin
Move（移动）： Unselected: bmp_mov.bin Selected: bmp_mov_sel.bin	Extruder（挤出机）： Unselected: bmp_extruct.bin Selected: bmp_extruct_sel.bin	Stepper: 1mm: bmp_step1_mm.bin 5mm: bmp_step5_mm.bin 10mm: bmp_step10_mm.bin	Back: bmp_return.bin

Appendix 2

Hexadecimal value for the Common Colors

Blue		0xFF0000
Green		0x00FF00

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Red		0x0000FF
yellow		0x00FFFF
Light blue		0xFF8080
Light green		0x80FF80
Light red		0x8080FF
Cyan		0xFFFF00
Light Cyan		0xFFFF80
Light yellow		0x80FFFF
Deep green		0x008000
Deep red		0x000080
Deep blue		0x800000
Deep yellow		0x008080
Black		0x000000
White		0xFFFFFFFF

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