

MKS TFT pictures&logos Customization Manual

V1.1

Contract

If customers want to customize the picture and logo showing in the touch screen, the rules should be followed.

1. Customization range:

- a. Button pictures (such as show at red number 1 in figure 1), text above the picture (such as show at red number 2 in figure 1) can be customized when you design your own pictures;
- b. Background color of screen(see Figure 3, default Black);
- c. Color of the text in title(see Figure 4, default white);
- d. Background color for status such as temperature (see figure1 red number "5", default dark blue);
- e. Color of the text for status such as temperature , etc. (see Figure 1 red number 6, default white);
- f. Color of the text in the button of "select the file" interface, (see Figure 2, showing at red number7,default white);
- g. Background color of the button in "select the file" interface,

we suggest you choose the same color with picture ;

- h. Background color of the print status information text in "printing" interface (see figure3, showing at red number "8", default white);
- i. Color of the print status information text in "printing" interface, we suggest you choose the same color with picture ;
- j. Button defaults 3D effect , then there will turn up white border around the button picture.



Figure 1



Figure 2



Figure 3

2. Customizable button picture, 16bpp, wide =78 pixels, high =104 pixels;
3. Customizable logo images, 16bpp, wide =320 pixels, high =240 pixels;
4. The name of the custom image must be named after the appendix (see Appendix 1).

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- 5.The color value is 16 binary, according to the 3 primary colors of blue, green, red order (see Appendix 2);
- 6.Customizable function button, can customize 7 buttons at most.

Step:

1. Picture customization

- a. Install the "Image2Lcd" tool that we provide;
- b. Follow the following operation for each picture:

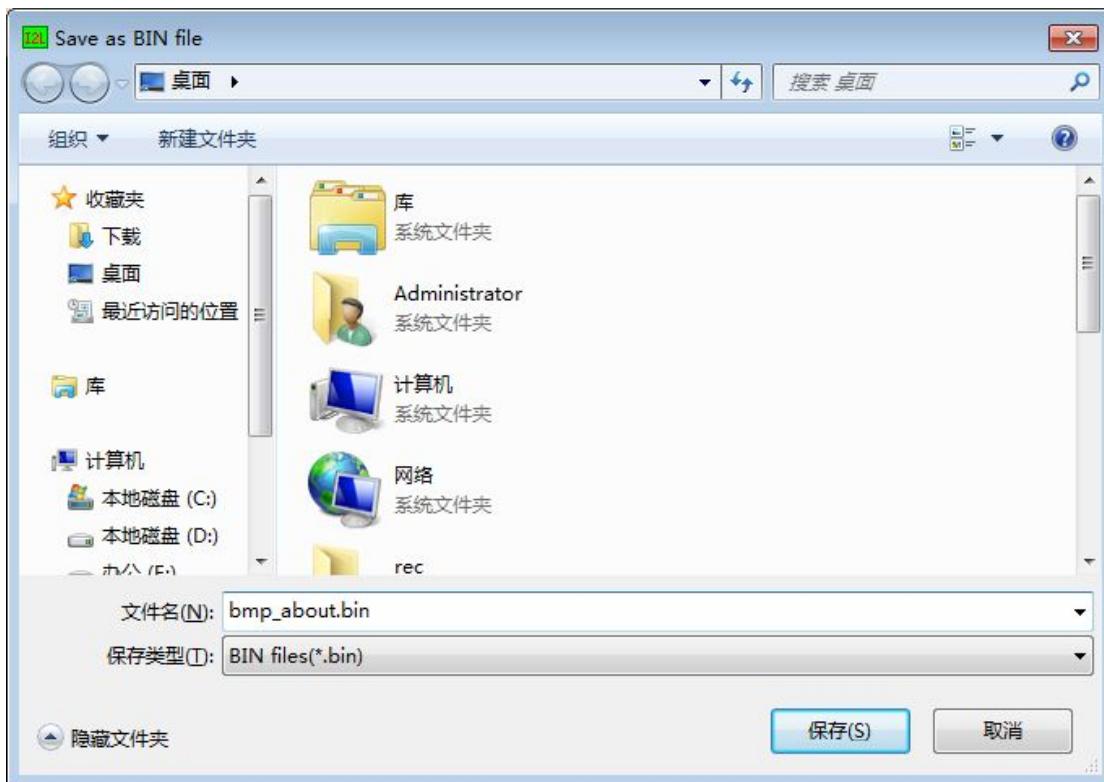
Open the Image2Lcd software and set as below:



Prepare .Bmp format picture, using the Image2Lcd to open:



Click save bottom, save the file with the name we specified.



c. Create a folder "mks_pic" in the root directory of your SD card, and put all the .Bin files generated by the previous step to the folder "mks_pic";

2. Screen background color customization

Modify the color value in configuration file "MKS config.txt" field "CFG background color" colon, and then save;

3. Color of title text customization

Modify the color value in configuration file " mks_config.txt "

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field "cfg_title_color" colon, and then save;

4. Background color for display statues such as temperature customization

Modify the color value in configuration file "mks_config.txt" field "cfg_state_background_color" colon, and then save;

5. Color of text such as temperature customization

Modify the color value in configuration file "mks_config.txt" field "cfg_state_text_color" colon, and then save;

6. Customize the color of filename button in "select file" interface

Modify the color value in configuration file "mks_config.txt" field "cfg_filename_color" colon, and then save;

7. Customize the background color of filename button in "select file" interface

Modify the color value in configuration file "mks_config.txt" field "cfg_filename_background_color" colon, and then save;

8. Customize the background color of text for printing status in “printing” interface

Modify the color value in configuration file " mks_config.txt " field " cfg_printingstat_word_background_color " colon, and then save;

9. Customize the color of text for printing status in “printing” interface

Modify the color value in configuration file " mks_config.txt " field " cfg_printingstat_word_color " colon, and then save;

10. Function button settings for the “more” menu;

a. Modify the value in configuration file " mks_config.txt " field " moreitem_pic_cnt " colon, and then save (maximum value is 7)

b. Change the command line after the colon of "moreitem_button1_cmd" in configuration file, and take it as your first function button. Each command with a semicolon ";" as the interval, the whole button command line use wrap for

the end. The total number of character for the entire function keys is no more than 200.

c. Others 6 buttons are the same way.

11.Wheather button needs 3D effect

Modify value after the colon of “mks_config.txt” “cfg_BUTTON_3D_effects” in configuration files. 1 is yes, 0 is no .

12. Copy file “mks_config.txt” and “mks_pic” to SD card root directory, insert SD card into MKS TFT, and restart , then the system will upgrade automatically.

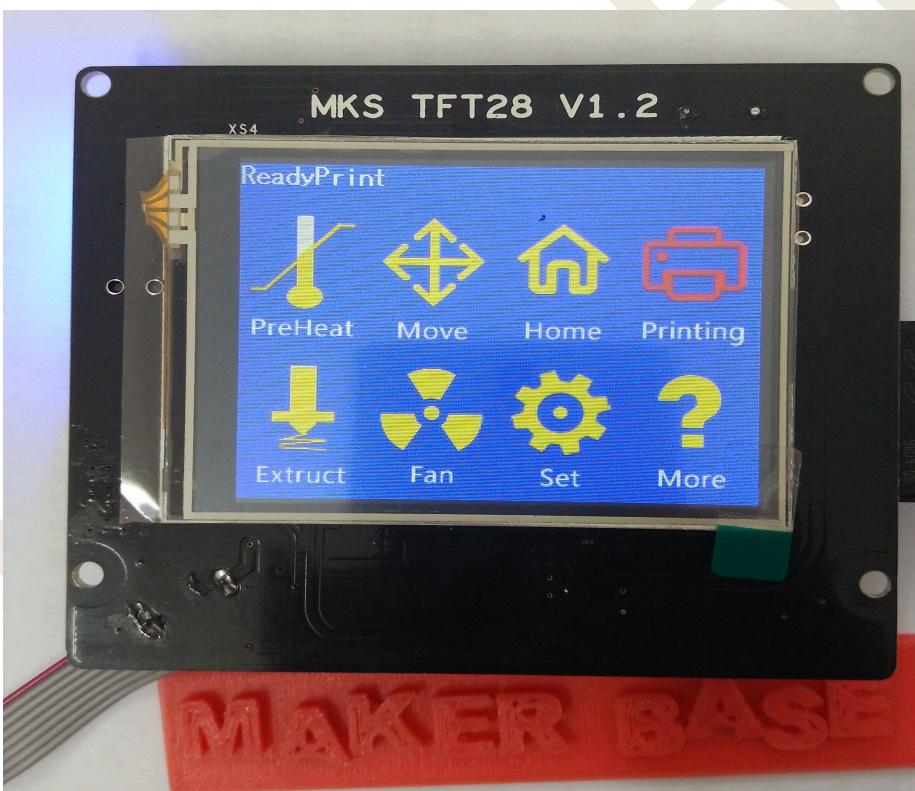
Appendix 1

Photo naming (note that some pictures are duplicated, you need only provide one).

1. logo: bmp_logo.bin



2. "ready to print" interface:



预热 (preHeat): bmp_preHeat.bin	移 动 (Move):	回 零 (Home) :	打印 (printing): bmp_printing.bi
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	bmp_mov.bi n	bmp_zero.bi n	n
挤出(extrusion): bmp_extruct.bin	风扇(Fan): bmp_fan.bin	设置(Set): bmp_set.bin	更多(More): bmp_more.bin

3.PreHeat interface:



增加(Add): bmp_Add.bi n			减少(Dec): bmp_Dec.bi n
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预热对象 (target): 热床 : bmp_bed.bn	步进 (step): 1 度 : bmp_step1_degree.bin	关 闭 (Close): bmp_speed0.bin	返 回 (Back): bmp_return.bin
喷头 1 : bmp_extru1.bn	5 度 : bmp_step5_degree.bin		
喷头 2 : bmp_extru2.bn	10 度 : bmp_step10_degree.bin		

3. Extrusion interface:



进料 (In): bmp_in.bi n			退 料 (Out): bmp_out .bin
喷头 (E): E1 : 1mm	步进 (Step): 1mm	速率 (speed): slow	返 回 (Back):

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bmp_extru 1.bin	bmp_step1_mm.bi n	bmp_speed_slow. bin	bmp_retr urn.bin
E2 : bmp_extru 2.bin	5mm : bmp_step5_mm.bi n 10mm : bmp_step10_mm. bin	normal : bmp_speed_norm al.bin high : bmp_speed_high. bin	

4. Move interface:



X+: bmp_xAdd. bin	Y+: bmp_yAd d.bin	Z+: bmp_zA dd.bin	步进 (Step): 0.1mm : bmp_step_move0_1.bin 1mm : bmp_step_move1.bin 10mm : bmp_step_move10.bin
X-: bmp_xDec. bin	Y-: bmp_yDe c.bin	Z-: bmp_zD ec.bin	返回 (Back): bmp_return.bin

5. Home interface:



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

7. Fan interface:



增加 (Add): bmp_Add. bin			减少 (Dec): bmp_Dec .bin
全速 (Full): bmp_spee d255.bin	半速 (Half): bmp_speed127.bi n	关闭 (close): bmp_speed0.bin	返回 (Back): bmp_ret urn.bin

8. Setting interface:



文件系统 (File Sys): bmp_fileSys .bin	触摸校正 (Calibration): bmp_adj.bin	机型(Machine): bmp_machine.bi n	连接 (connect): bmp_connect.bin
wifi: bmp_wifi.bi	语言(language): bmp_lang.bin	关于/about): bmp_about.bin	返回 (Back):

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n			bmp_retu rn.bin
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9. File system interface:



SD: 未选择： bmp_sd.bin 被选择： bmp_sd_sel.b in	U 盘 (udisk): 未选择： bmp_usb.bin 被选择： bmp_usb_sel.b in		
			返 回

			(Back): bmp_retu rn.bin
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10. Machine type interface



普通 (normal): 未 选 择 : bmp_norm.bin 被 选 择 : bmp_norm_sel. bin	三角洲 (delta): 未 选 择 : bmp_delta.bin 被 选 择 : bmp_delta_sel.bi n		
			返 回

			(Back): bmp_retu rn.bin
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11. Connecting interface



9600: 未 选 择 : bmp_baud9600.bn	115200: 未 选 择 : bmp_baud115 200.bin	250000: 未 选 择 : bmp_baud250 000.bin	
被 选 择 : bmp_baud9600_s el.bn	被 选 择 : bmp_baud115 200_sel.bn	被 选 择 : bmp_baud250 000_sel.bn	

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			返 回 (Back): bmp_ret urn.bin
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12. Language interface



简体中文 (simple Chinese): 未选择： bmp_simple.bin 被选择： bmp_simple_sel .bin	英文(English): 未选择： bmp_en.bin 被选择： bmp_en_sel.bin		
			返回 (Back): bmp_ret urn.bin

13. More interface

自定义1(custom1): bmp_custom1.bin	自定义2(custom2): bmp_custom2.bin	自定义3(custom3): bmp_custom3.bin	自定义4(custom4): bmp_custom4.bin
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自 定 义 5(custom5): bmp_custom 5.bin	自 定 义 6(custom6): bmp_custom6 .bin	自 定 义 7(custom7): bmp_custom 7.bin	返 回 (Back): bmp_return n.bin
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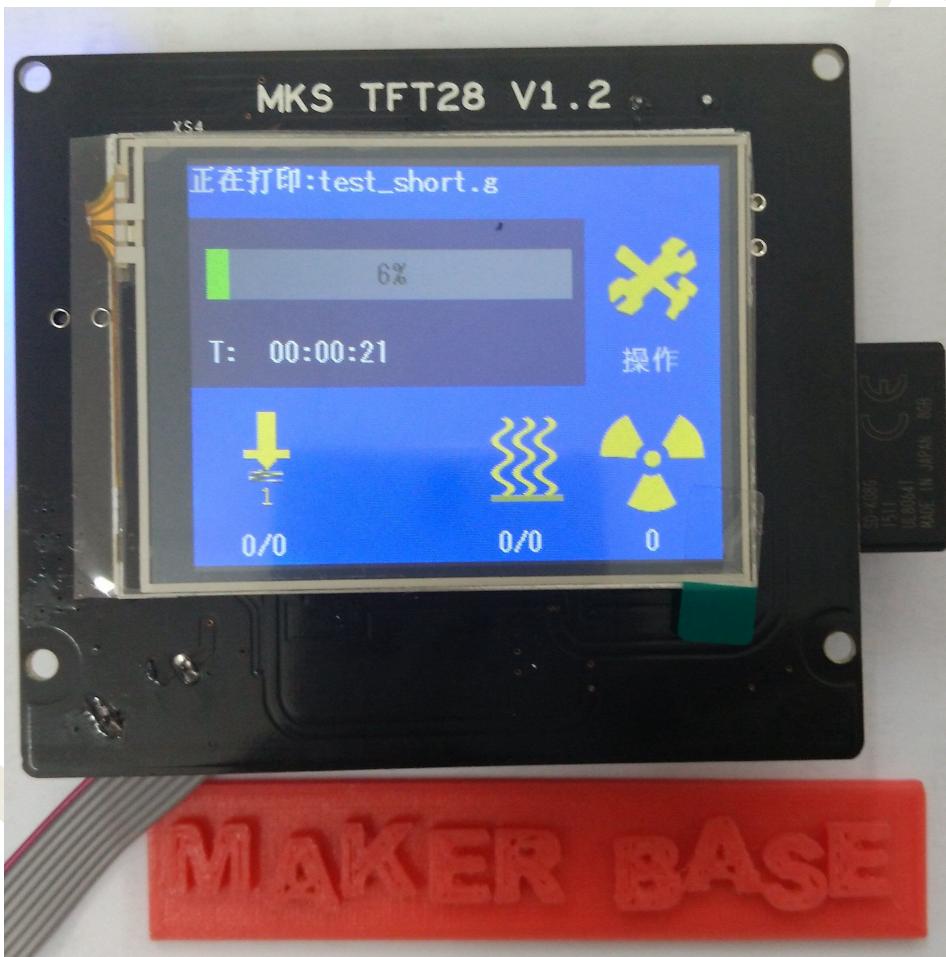
14. “Choose file” interface



文件 (file): bmp_file.bin			
目录 (dir): bmp_dir.bin			
	上 一 页 (page)	下 一 页 (page)	返 回

	up): bmp_pageUp.b in	down): bmp_pageDo wn.bin	(Back): bmp_return. bin
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15. Printing interface



			操作 (option): bmp_menu.bin
喷头 1(E1): bmp_extru	喷头 2(E2): bmp_extru2	热床 (bed): bmp_bed_no_	风扇 (fan): bmp_fan_no_word

1_no_word s.bin	_no_words. bin	words.bin	s.bin 风 扇 转 动 : bmp_fan_move.bi n
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16. Option interface



暂停 (pause): bmp_pause.bin			停 止 (stop): bmp_stop.bi
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			n
温 度 (temperature) : bmp_temp.bin	变速 (speed) : bmp_speed.bin	风扇 (fan): bmp_fan.bin	返 回 (Back): bmp_return. bin

17. Pause interface



恢 复 (resume):			停 止 (stop):
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bmp_resume.b in			bmp_stop.bi n
挤出 (Extruct): bmp_extruct.bi n	移动 (move) : bmp_mov.bin	风扇 (fan): bmp_fan.bin	温 度 (temperat ure) : bmp_temp. bin

18. Speed interface



增加 (Add):			減 少
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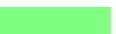
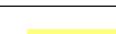
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bmp_Add.bin			(Dec) : bmp_Dec.bn
移 动 (Move): 未 选 择 : bmp_mov.bn 被 选 择 : bmp_mov_se l.bn	挤出(Extruct): 未 选 择 : bmp_extruct.bn 被 选 择 : bmp_extruct_s el.bn	步进(Step): 1mm : bmp_step1_mm.bn 5mm : bmp_step5_mm.bn 10mm : bmp_step10_m.bn	返 回 (Back): bmp_return.bn

2 Appendix 2

Hexadecimal value for the common color

Blue		0xFF0000
Green		0x00FF00
Red		0x0000FF

yellow		0xFFFFF
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		0xFFFFF