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TFT35 V3.0

User Guide



Explanation of black screen in TFT35 V3.0:

1. First of all, according to the manual, when using TFT35 V3.0, common interface motherboards (such as SKR V1.3, SKR MINI V1.1, SKR Pro V1.1, etc.), EXP1, EXP2 and RS232 should be connected. After ensuring the correct line order, the connection can be used in dual mode.

5V		· ·		GND		NC		· ·		GND
(LCD_D7) PC14		· ·		PC15 (LCD_D6)		RESET		· ·		PB9(SD_DETECT)
(LCD_D5) PB7		· ·		PC13 (LCD_D4)		(MOSI)PB5		· ·		PB8(BTN_EN2)
(LCD_RS) PC12		· ·		PB6 (LCD_EN)		(SD_SS)PA15		· ·		PD2(BTN_EN1)
(BTN_ENC) PC11		· ·		PC10 (BEEPER)		(SCK)PB3		· ·		PB4(MISO)
EXP1						EXP2				

2. If the CR-10 interface motherboard (such as SKR MINI E3、SKR E3 DIP V1.0 etc.)uses TFT35 V3.0, it needs to connect EXP3 and RS232.

After ensuring the correct line order, the connection can use dual mode.

5V		· ·		GND
(LCD_EN) PB7		· ·		PB8 (LCD_RS)
(LCD_D4) PB9		· ·		PA10 (BTN_EN2)
RESET		· ·		PA9 (BTN_EN1)
(BTN_ENC) PB6		· ·		PB5 (BEEPER)
EXP3				

3、Some customers do not choose the above two connection mode, forced the ordinary interface motherboard EXP1 plug into TFT35 V3.0 EXP3, this will lead to black screen phenomenon. The reason is shown in the red box below. The Pin corresponding to EXP3 is RESET to TFT35 V3.0, while the Pin corresponding to EXP1 is LCD_RS. As a result, TFT35 V3.0 is in RESET state, so it is displayed as a black screen.

5V	· ·	GND	5V	· ·	GND
(LCD_D7) 1.23	· ·	1.22 (LCD_D6)	(LCD_EN) PB7	· ·	PB8 (LCD_RS)
(LCD_D5) 1.21	· ·	1.20 (LCD_D4)	(LCD_D4) PB9	· ·	PA10 (BTN_EN2)
(LCD_RS) 1.19	· ·	1.18 (LCD_EN)	RESET	· ·	PA9 (BTN_EN1)
(BTN_ENC) 0.28	· ·	1.30 (BEEPER)	(BTN_ENC) PB6	· ·	PA15 (BEEPER)
EXP1			EXP3		

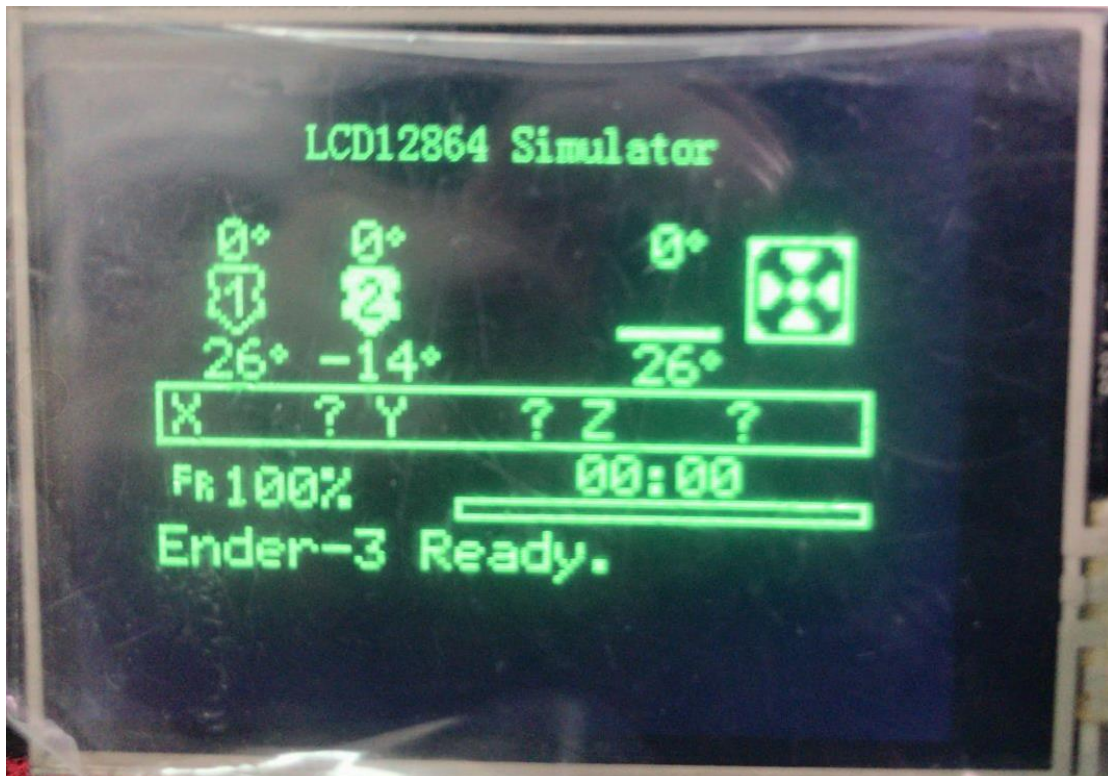
When the TFT35 V3.0 is switched to the LCD screen mode, the content is not displayed:

Phenomenon: when switching from touch mode to LCD mode, the phenomenon that the screen does not display contents will appear as follows:





Essence: the main board in TFT mode has completed the initialization process. If you switch to LCD mode, there will be no data to transfer, so the LCD interface will not refresh. If you need to change the data, you can press the encoder or rotate the encoder to refresh the screen and finally display what it should display. As shown below:



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Final statement: The TFT2.4 or TFT35 sold by our company are not equipped with SD card. The customer can only use their own SD card to update the firmware, or purchase the SD card separately. Therefore, when purchasing, please make sure whether the SD card is equipped with or not. (You can confirmed it through the product home page diagram).

If you have other problems during the using process, please sort them out and send them to the customer. They will help you solve them patiently. If you have any suggestions, you can also organize and send them to customer service staff. We will give full consideration to your suggestions. Finally, thank you for choosing BTT products. Thank you so much!