# 如何修改显示方向

## 1、GPIO 接口型 LCD 旋转显示方法:

适用于 GPIO 接口型 LCD(2.4 寸,2.8 寸,3.2 寸,3.5 寸).

#### 在终端执行命令:

sudo nano /boot/config.txt

如使用2.4寸/2.8寸/3.2寸LCD则找到"dtoverlay=tft9341"行,添加rotate参数,格式如下:

dtoverlay=tft9341:rotate=value

如使用 3.5 寸 LCD 则找到" dtoverlay=tft35a" 行,添加 rotate 参数,格式如下:

dtoverlay=tft35a:rotate=value

以 3.5 寸 LCD 为例说明:

如需旋转0度(竖屏显示),则对应值为:

dtoverlay=tft35a:rotate=0

如需旋转90度(横屏显示),则对应值为:

dtoverlay=tft35a:rotate=90

如需旋转 180 度(竖屏显示),则对应值为:

dtoverlay=tft35a:rotate=180

如需旋转 270 度 (横屏显示),则对应值为:

dtoverlay=tft35a:rotate=270

按键盘 Ctrl + X,选择Y,保存退出并重启即可生效。

# 2、HDMI 接口型 LCD 旋转显示方法:

适用于 HDMI 接口型 LCD(如 3.97 寸,4.3 寸,5 寸,7 寸 B 款,7 寸 C 款,10.1 寸)

#### 在终端执行命令:

sudo nano /boot/config.txt

找到"display\_rotate"参数项,如果没有该项则添加进去

display\_rotate参数含义见下表:

display_rotate	result
0	no rotation
1	rotate 90 degrees clockwise
2	rotate 180 degrees clockwise
3	rotate 270 degrees clockwise
0x10000	horizontal flip
0x20000	vertical flip

#### 如需旋转0度,则对应值为:

display\_rotate=0

#### 如需旋转90度,则对应值为:

display\_rotate=1

#### 如需旋转 180 度,则对应值为:

display\_rotate=2

#### 如需旋转 270 度,则对应值为:

display\_rotate=3

#### 如需水平翻转显示,则对应值为:

display\_rotate=0x10000

#### 如需垂直翻转显示,则对应值为:

display\_rotate=0x20000

按键盘 Ctrl + X,选择Y,保存退出。

如下图所示:

```
pi@raspberrypic →
                                                                                           - E X
                                  File: /boot/config.txt
                                                                                            Modified -
     mment to overclock the arm. 700 MHz is the default.
 Uncomment some or all of these to enable the optional hardware interfaces
 dtmaran=12s=on
 tparamespi=on
  able uart=1
  Uncomment this to enable the lire-rpi module
 dtoverlav=lire-rpi
 Additional overlays and parameters are documented /boot/overlays/README
 Enable audio (loads and_bcm2835)
itoverlay-tft35a;rotate-270
                             17, pening pull-2, speed-1000000, keep wref on-1, swapky-1, pmax-255, wohns-60, x
 toverlay-ada7846, ca-1, peni:
```

## 3、修改触摸参数

当显示方向改变后还需要通过修改 99-calibration.conf 文件 对触摸进行设置。执行命令:

```
sudo nano /etc/X11/xorg.conf.d/99-calibration.conf
```

#### 以5寸 HDMI LCD 为例:

默认参数为 0 度,即 display\_rotate=0,对应触摸校准参数为:

```
Section "InputClass"

Identifier "calibration"

MatchProduct "ADS7846 Touchscreen"

Option "Calibration" "140 3951 261 3998 "

Option "SwapAxes" "0"

EndSection
```

如需旋转 90 度显示,即 display\_rotate=1,对应触摸参数修改为:

```
Section "InputClass"

Identifier "calibration"

MatchProduct "ADS7846 Touchscreen"

Option "Calibration" "261 3998 3951 140"

Option "SwapAxes" "1"

EndSection
```

如需旋转 180 度显示,即 display\_rotate=2,对应触摸参数修改为:

```
Section "InputClass"

Identifier "calibration"

MatchProduct "ADS7846 Touchscreen"

Option "Calibration" "3951 140 3998 261"

Option "SwapAxes" "0"

EndSection
```

## 如需旋转 270 度显示,即 display\_rotate=3,对应触摸参数修改为:

```
Section "InputClass"

Identifier "calibration"

MatchProduct "ADS7846 Touchscreen"

Option "Calibration" "3998 261 140 3951"

Option "SwapAxes" "1"

EndSection/
```

# 修改完成后,重启即可看到修改后的效果.

sudo reboot