

Android 10 camera 模组选型 指南





文档履历

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1. Camera 模组选型

对物理横屏(如分辨率: 1280x800) 和物理竖屏(如分辨率: 800x1280), 对摄像头成像角度是 有不同的要求的。

横屏与竖屏差别(下面左边是物理横屏,右边是物理竖屏):

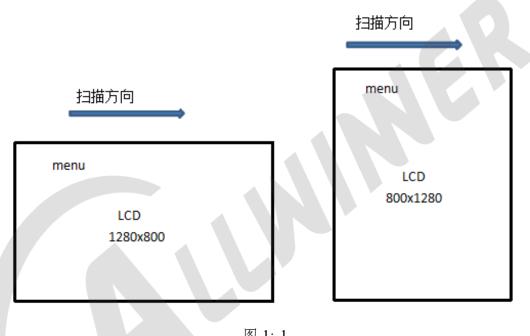


图 1:1

摄像头成像方向有如下两种 (左边为 0 度,右边为 90 或 270 度):

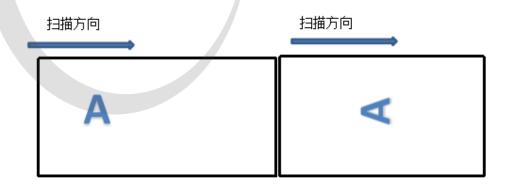


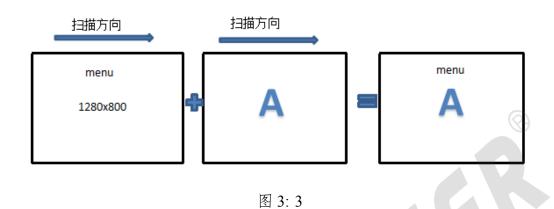
图 2: 2

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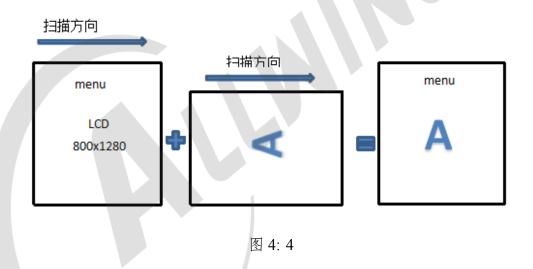
1



正确的配对方式为:横屏时应选择摄像头成像角度为0度的模组。



竖屏竖屏时应选择摄像头成像角度为90度或者270度的模组



正确选型后,在配置文件 camera.cfg 中将 camera_orientation 配置为摄像头成像角度,这样系统就可以正确识别摄像头的成像角度。

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2. 后置摄像头分辨率要求

谷歌 GMS 测试强制要求后置摄像头分辨率宽 x 高的像素必须大于等于 200 万像素, 否则 GMS camera 模块 android.hardware.camera2.cts.ExtendedCameraCharacteristicsTest#testAvailableStreamConfigs 这一项会过不了测试。因此在 Camera 模组选型的时候后置摄像头的分辨率宽 x 高的像素必须大于等于 200 万像素。

```
private static final Size FULLHD_ALT = new Size(1920, 1088);
private static final Size HD = new Size(1280, 720);
private static final Size VGA = new Size(640, 480);
private static final Size QVGA = new Size(320, 240);

private static final long MIN_BACK_SENSOR_RESOLUTION = 2000000;
private static final long MIN_FRONT_SENSOR_RESOLUTION = VGA.getHeight() * VGA.getHeight()
```

图 5:5





3. Declaration

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