

# i.MX Android™ Camera Issues on the SDP Platform

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## 1 Overview of the SDP Platform

A Standard Android™ tablet layout are contrasted with the Freescale SABRE-SDP, as shown in the following figure. An overview of hardware components and software screen layouts is provided.

For more information, see [freescale.com/sabresdp](http://freescale.com/sabresdp).

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Figure 1. SDP platform

## 2 Standard Android Tablet Layout

In a standard Android tablet, certain miscellaneous devices such as layout, acceleration, sensor, and G-sensor should be aligned with each other.

- The device mold layout represents a tablet layout. Typically the user is able to hold it and can view the tablet logo.
- The screen layout points out which pixel is the (0,0) on the screen, which side is W and which one is H. Screen layout should be the same as the device mold layout.
- The camera layout represents a camera lens layout which points to the image capture view. The camera layout should be the same as the screen layout. The back camera should be placed into the back side of the device.
- The acceleration sensor and the G-sensor layout represent a device X/Y/Z rotation report. They should report the same Y-Axis rotation when the user rotates the device.

The following figure shows the standard tablet layout:

- The device mode layout is aligned with the screen layout and front camera layout.
- The sensor does not report a rotation when the user holds the device as the mold layout. It reports the right Y rotation if the device has a Y rotation.

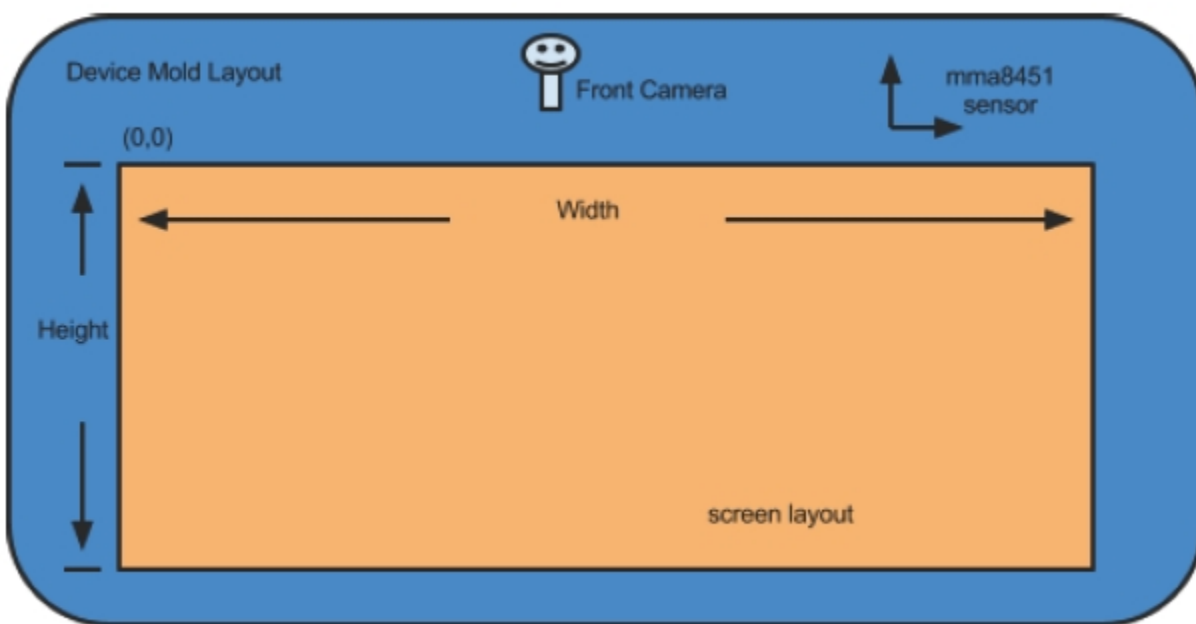
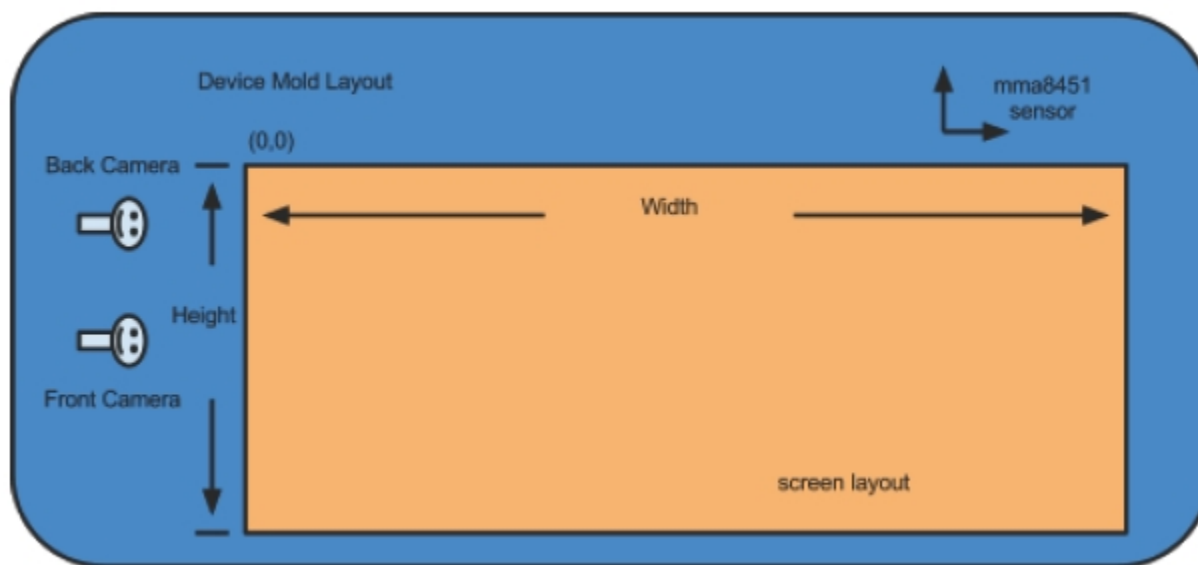


Figure 2. Standard Android tablet layout

## 3 SDP Layout

The SDP board layout is shown below.



**Figure 3. Standard data path for each UI component (Windows® OS and Video)**

These are the two issues associated with the SDP layout:

- Camera sensors have a 270 degree clockwise turn to the screen layout.
- The back camera is not placed on the back side of the device.

Because of the the above issues, in the preview of the front camera the calendar stands vertically on the Desktop as shown in this figure.

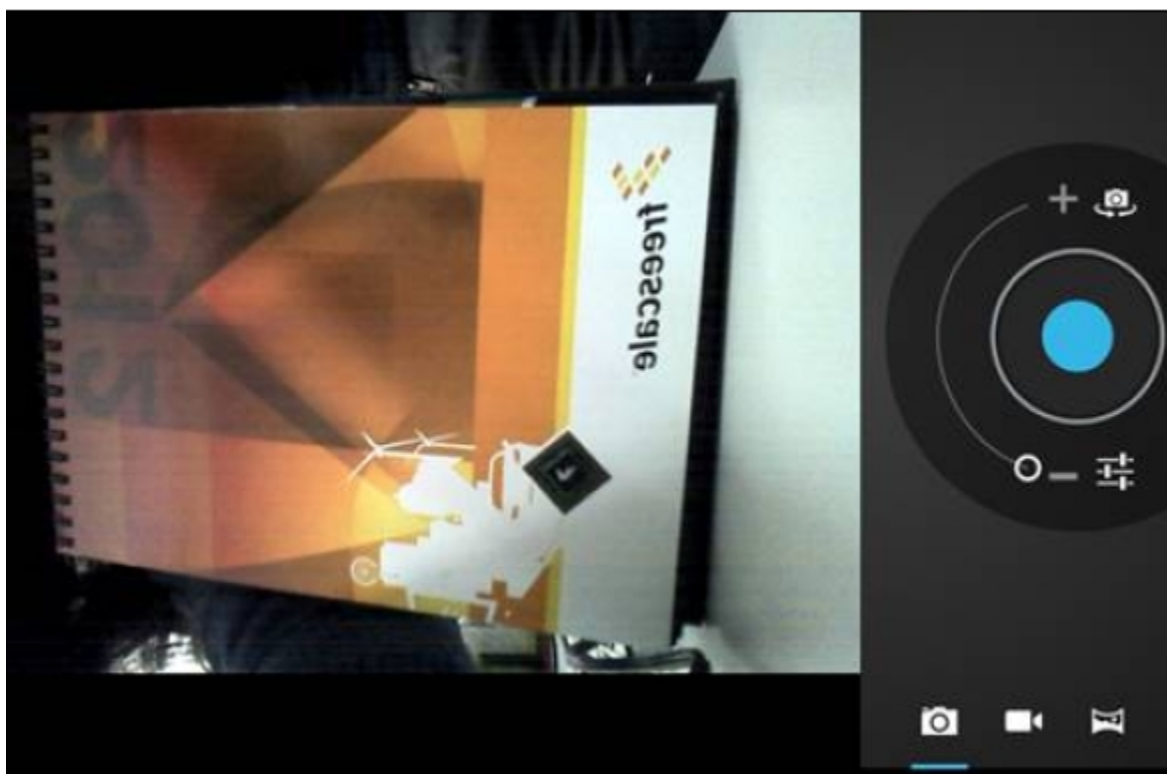


Figure 4. Open issue

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