



## Application Notes

# Tablet HDMI 输出配置指南

Revision 0.1

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### 修改记录

版本	日期	作者	修改
0.1	2014/06/16	Wei Wang	初稿

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### 1. 简介

Tablet HDMI 输出，大部分切换都是依靠写节点的方式，实现在 `hdmiwitch.apk` 中。

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## 2. M8baby 输出配置

### 2.1. Panel 输出

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/display/mode","panel");
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","0")
```

### 2.2. 插上 hdmi 后, 切换到 hdmi 输出

#### 2.2.1.HDMI 端输出 480p

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_angle","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","1");
amsysfs_set_sysfs_str("/sys/class/display/mode","480p");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale_axis","0 0 1279 719");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/window_axis","20 10 700 470");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x10001");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_update_pan","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","0");
```

#### 2.2.2.HDMI 端输出 720p

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_angle","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale_axis","0 0 1279 719");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/window_axis","40 15 1239 704");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x10001");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_update_pan","1");
amsysfs_set_sysfs_str("/sys/class/display/mode","720p");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","0");
```

#### 2.2.3.Hdmi 端输出 1080p

```
amsysfs_set_sysfs_str("/sys/class/graphics/fb0/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","0");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_angle","1");
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_clone","1");
amsysfs_set_sysfs_str("/sys/class/display/mode","1080p");
```

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```
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale_axis","0 0 1279 719");  
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/window_axis","40 15 1879 1064");  
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/free_scale","0x10001");  
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/ver_update_pan","1");  
amsysfs_set_sysfs_str("/sys/class/graphics/fb1/blank","0");
```

### 备注:

1. int amsysfs\_set\_sysfs\_str(const char \*path, const char \*val)

说明: 这个函数用来写节点, 将 path 写入 val

2. 以上是依据 m102 为例, 说明切换过程

写入 free\_scale\_axis 是 fb1 的 size, fb1 的数据是把 fb0 的数据经过翻转拉伸后得到的。为了适应 hdmi 不同的分辨率, 通过 osd\_scaler 将初始数据 scale 到各个分辨率。

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