
TVP5154 RAM Release Notes

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1. Introduction

The TVP5154 has embedded video decoding firmware revision v02.00 in the device on-chip ROM. The TVP5154 device has a limited embedded RAM space which allows patch firmware code download possible. The patch can be used in improving decoder performance or fixing known decoder firmware bugs.

This document discusses the hardware and firmware issues related to the TVP5154 and fixes made by the patch v02.A3. The discussions also include performance improvement made by the patch, the differences between the patch and the TVP5154 Data Manual.

2. Device & Firmware Affected

The information provided below is related only to the following device and firmware. Additional devices and firmware releases will have their own release notes.

Table 1. Device & Firmware Affected

Device	TVP5154
Firmware	v02.A3
Patch Size	2943 bytes
Datasheet	SLES2143B.pdf

3. Device Related Issues

- Output square pixel for NTSC and PAL format. Power up default is BT601, to enable square pixel output, bit 7 of I2C register 0Dh need to be set.
- Fixed the automatic level control (ALC) to function properly when the sync-tip is clipped.
- Provide stable syncs when the video source is disconnected or force to wrong mode.

4. Related Documentation

The following is the currently available related documentation.

Table 2. Related Documentation

Description	File	Purpose
Patch download app note	SLEA095.pdf	Application note

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