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## ***TVP5151 RAM Release Notes***

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## 1. Introduction

The TVP5151 has embedded video decoding firmware revision v01.00 in the device on-chip ROM. The TVP5151 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 TVP5151 and fixes made by the patch v01.00. The discussions also include performance improvement made by the patch, the differences between the patch and the TVP5151 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	TVP5151
Firmware	v01.92
Patch Size	4713 bytes
Datasheet	SLES241B.pdf

## 3. Device Related Issues

- Fixed black/white line noise issue that occurred whenever the analog gain changed.
- Limited contrast setting to 207 to prevent wraparound of back-end digital gain.
- Fix problem that require changing brightness after contrast get modify.
- Support 720 active pixel output for NTSC and PAL format.
- 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	SLEA094.pdf	Application note

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