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## ***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 v02.05. 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	v02.05
Patch Size	3747 bytes
Datasheet	SLES2143B.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.
- Fixed problem that required the brightness setting to be modified whenever the contrast setting is modified to restore the black level.
- 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.
- Fixed crosshatch video output when no color burst present.

## 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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Broadband	<a href="http://www.ti.com/broadband">www.ti.com/broadband</a>
Digital Control	<a href="http://www.ti.com/digitalcontrol">www.ti.com/digitalcontrol</a>
Medical	<a href="http://www.ti.com/medical">www.ti.com/medical</a>
Military	<a href="http://www.ti.com/military">www.ti.com/military</a>
Optical Networking	<a href="http://www.ti.com/opticalnetwork">www.ti.com/opticalnetwork</a>
Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
Telephony	<a href="http://www.ti.com/telephony">www.ti.com/telephony</a>
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