|  |  |
| --- | --- |
| **Joint Collaborative Team on 3D Video Coding Extension Development**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  1st Meeting: Stockholm, SE, 16–20 July 2012 | Document: JCT2-A0063 |

|  |  |  |  |
| --- | --- | --- | --- |
| *Title:* | **3D-CE1.a : Cross check on interview skip/direct mode with sub-partition scheme of MediaTek (JCT2-A0050)** | | |
| *Status:* | Input Document | | |
| *Purpose:* | Report | | |
| *Author(s) or Contact(s):* | Ilsoon Lim, Jin Young Lee  14-1 Nongseo-dong Giheung-gu Yongin-si Gyeonggi-do 446-712 South Korea | Tel: Email: | +82 31 280 6688 ilsoon.lim@samsung.com |
| *Source:* | Samsung Electronics Co., Ltd. | | |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Introduction

The experimental result for MediaTek’s “VSP Off and Inter View Skip” is reported. It shows +0.08 % (decoded view) and -0.21% (rendered view) in BD-rate compared to 3DV-ATM 0.4. The decoding time reduction is 14.8% compared to 3DV-ATM 0.4

# Test results

## Testing environment

Testing environment is described in below.

• Operating System

MS-Windows 7 [64 bit]

• Compiler

MS-Visual Studio 2010 Professional [64 bit]

Table 1. Test results for MediaTek

|  |  |  |
| --- | --- | --- |
| Sequences | BD-rate with PSNR of  decoded views over  texture + depth bit rate | BD-rate with PSNR of  synthesized views over  texture + depth bit rate |
| Poznan Hall2 | 1.25 | 0.80 |
| Poznan Street | 0.54 | 0.22 |
| Undo Dancer | 0.43 | -0.02 |
| GT Fly | 0.66 | 0.36 |
| Kendo | -0.59 | -0.81 |
| Balloons | -1.32 | -1.70 |
| Newspaper | -0.42 | -0.34 |
| Average | 0.08 | -0.21 |
| Encoding Time (%) | 94.3% | |
| Decoding Time (%) | 86.7% | |

# Conclusion

The BD-rate (and PSNR) results obtained from the cross-verification match those provided to us by MediaTek’s “VSP Off and Inter View Skip”.