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| **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**  3rd Meeting: Geneva, CH, 17–23 Jan. 2013 | Document: JCT3V-C0011 |

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| *Title:* | **JCT-3V AHG Report: 3D Test Material (AHG11)** | | |
| *Status:* | Input Document | | |
| *Purpose:* | Report | | |
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| *Source:* | AHG | | |

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# Abstract

This document reports on the work of the JCT-VC *ad hoc* group on Test Material (AHG11) between the 2nd JCT-3V meeting in Shanghai (13 – 19 October, 2012) and the 3rd JCT-3V meeting in Geneva (17 – 23 January, 2013).

# Mandates

* Identify deficiencies and limitations of current 3D video test material.
* Identify, collect, and make available a variety of additional 3D video sequences.
* Study the characteristics of test materials and their impact on coding performance, synthesis quality etc.
* Recommend appropriate test materials for use in 3D Video Coding Extension Development.

The email reflector for AHG11 is [jct-3v@lists.rwth-aachen.de](mailto:jct-3v@lists.rwth-aachen.de).

# Activity Summary

There were some efforts to test and bring new 3D test sequences. Email discussions as well as some preliminary examination of the contents took place. At this meeting we have two input contributions in this AHG.

Notably, NICT kindly provided many stereo and multiview sequences, NICT-3D, for the research and development of 3D video technologies and devices. NICT-3D includes four kinds of 3D sequences: 4K3D stereoscopic, 3 view + 1 depth, dense scanned multiview, and 3D CG. We confirmed that these sequences can be used free of charge for non-commercial purposes. More details can be found in a related contribution (JCT3V-C0101) at this meeting.

In terms of contents, the NICT-3D set seems to be useful, helping to at least partly overcome the limitations of the current JCT3V data set. On the other hand, all of them (to be confirmed) are interlaced 3D sequences and depth-maps that accompany them seem rather noisy and temporally-fluctuating.

# List of related input documents

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| **Source** | **Doc No.** | **Title** | **Type** |
| NTT | JCT3V-C0101 | AHG11: 3D Test Materials from NTCT-3D data set | Proposal |
| FP7 3D VIVANT Consortium | JCT3V-C0210 | 3D Holoscopic Video Test Material | Information |

# Recommendations

The AHG on 3D Test Material recommends:

1. To review the related input contributions.
2. To discuss potential utility of the NICT-3D set and technical issues in adopting the sequences.
3. To discuss and possibly set up a plan to resolve the technical issues if sufficient interests exist.