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| *Title:* | Draft 3 of 3D-AVC Reference Software | | |
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# Abstract

This is a draft 3 of the reference software implementing Rec. ITU-T H.264 and ISO/IEC 14496-10 3D extension of AVC. Source code is made available online from the SVN repository.

# Introduction

Reference software is useful in aiding users of a video coding standard to establish and test conformance and interoperability, and to educate users and demonstrate the capabilities of the standard. For these purposes, the accompanying software is provided as an aid for the study and implementation of the Rec. ITU-T H.264 and ISO/IEC 14496-10 specification. The reference software associated with this document is attached:

# Changes compare to the Draft 2

Reference software provided in Draft 3 includes the following changes compare to the Draft 2 package:

1. Decoupling of source code for DMVP and VSP coding tools implementation

2. Alignment of specification text and software for DMV derivation (texture first and depth first coding modes)

3. Enabling IPP and IBP inter-view prediction coding structures

4. Enabling ALC execution with IPP and IBP inter-view prediction structures

5. Bug-fixes in the High Level Syntax

6. Bug-fixes to the MVD coding with flexible resolution of depth component

More details on the introduced changes can be found in the documents JCT3V-F0268, JCT3V-G0239 and JCT3V-H0004.

# Purpose

The purpose of this Recommendation | International Standard is to provide the following:

– Reference decoder software capable of decoding bitstreams that conform to the Rec. ITU-T H.264 and ISO/IEC 14496-10 specification.

– Reference encoder software capable of producing bitstreams that conform to the Rec. ITU-T H.264 and ISO/IEC 14496-10 specification.

# Examples of use

Some examples of uses that may be appropriate for the reference decoder software are as follows:

– As an illustration of how to perform the decoding process specified in the Rec. ITU-T H.264 and ISO/IEC 14496-10.

– As the starting basis for the implementation of a decoder that conforms to the Rec. ITU-T H.264 and ISO/IEC 14496-10.

– For testing the conformance of a decoder implementation with the decoding process specified in Rec. ITU-T H.264 and ISO/IEC 14496-10 AVC extension for inclusion of depth maps (as the values of the samples in all decoded pictures and the relative ordering of those pictures will be identical from all conforming decoder implementations that support the profile and level used in a bitstream that conforms to Rec. ITU-T H.264 and ISO/IEC 14496-10).

# Warranty disclaimer

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