

JCT3V-H0080: on MFC plus Depth: Specification and Software



Outline

- MFC+Depth requirement (m32985)
 - Add MFC DEPTH HIGH profile in Annex I
 - Texture views: backward compatible to MFC
 - Depth views: MVC
- MFC compatible extension including depth (MFC+D)
 - Specification
 - Software

Proposed Text in Spec

- I.10.1.2 MFC Depth High Profile (profile_idc=135)

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The sub-bitstream of stereoscopic texture bitstream as specified in clause I.8.5.5 shall obey all constraints of the MFC High profile specified in clause H.10.1.3 and all active MVC sequence parameter sets shall fulfill one of the following conditions:

- profile_idc is equal to 134,
- profile_idc is equal to 100,
- profile_idc is equal to 77 or constraint_set1_flag is equal to 1.

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MFC+Depth Software

- Implemented based on MFC reference software from JM18.3
 - Texture views and depth views: progressive and same resolution
 - Includes software manual.
- Encoder usage:
 - `lencod_Release_x64.exe -d encoder_mfc_texture.cfg -depd encoder_mfc_depth.cfg`
- Decoder usage
 - Decoding of texture view Base layer and Enhancement layer bitstreams and depth view View 0 and View 1 bitstream: `ldecod_Release_x64.exe -d decoder_mfc_depth.cfg -p ExportViews=0`
 - Full reconstruction of left and right texture views from MFC and decoding of depth views View 0 and View 1: `ldecod_Release_x64.exe -d decoder_mfc_depth.cfg -p ExportViews=1 -p DemuxMode=1`

Proposal

- Include MFC Depth High Profile in Annex I of AVC extension.

Acknowledgement

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