

ISO/IEC JTC 1/SC 29/WG 1

(& ITU-T SG16)

Coding of Still Pictures

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JBIG — JPEG

ISO/IEC 21122-2:2022/PRF Amd 1

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iec-21122-2-2022-prf-amd-1

Experts Group — Experts Group

TITLE: ~~ISO/IEC 21122-2:2022/AMD1 “Profile and sublevel for 4:2:0 content”~~

SOURCE: ~~JTC 1/SC 29/WG 1~~

PROJECT: ~~ISO/IEC 21122-2:2022~~

STATUS: ~~Publication~~

REQUESTED

ACTION: _____

DISTRIBUTION: _____ SC 29

Contact:

ISO/IEC JTC 1/SC 29/WG1 Convener – Prof. Touradj Ebrahimi
EPFL/STI/IEL/GR-EB, Station 11, CH-1015 Lausanne, Switzerland
Tel: +41 21 693 2606, Fax: +41 21 693 7600, E-mail: Touradj.Ebrahimi@epfl.ch

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ISO 21122-2:2022/AMD1(E)

ISO- SC 29/WG 1

Date: 2022-~~01-21~~10

Information technology - JPEG XS low-latency lightweight image coding system - Part 2: Profiles and buffer models

AMENDMENT 1: Profile and sublevel for 4:2:0 content

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~~DAMD stage~~

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CP 401 • Ch. de Blandonnet 8

CH-1214 Vernier, Geneva

Phone: +41 22 749 01 11

Email: copyright@iso.org

Website: www.iso.org

Published in Switzerland

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology* Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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Information technology – JPEG XS low-latency lightweight image coding system –

Part 2:

Profiles and buffer models

AMENDMENT 1: Profile and sublevel for 4:2:0 content

Part 2:

Profiles and buffer models

AMENDMENT 1: Profile and sublevel for 4:2:0 content

A.2.1, Table A.3

Replace the table with the following table:

Table A.3 — JPEG XS High profiles

Profile	High 420.12	High 444.12	High 4444.12
Number N_{sbu} of smoothing buffer units of the decoder model	16	16	16
Smoothing buffer offset S_{sbo} in bits	1_024	1 024	1 024
Component bit precision ($B[i]$)	8, 10, 12	8, 10, 12	8, 10, 12
Internal precision (Bw)	20	20	20
# fractional bits for DWT coefficients (Fq)	8	8	8
Non-linear transform	Disallowed	Disallowed	Disallowed
Raw-mode selection per packet flag (Rl)	0	0	0
Chroma sampling formats	4:2:0	4:0:0 4:2:2 4:4:4	4:0:0 4:2:2 4:4:4 4:2:2:4 4:4:4:4
Colour transformation	0 (None)	0 (None) for any sampling	0 (None) for any sampling

		format, or optionally 1 (RCT) for 4:4:4	format, or optionally 1 (RCT) for 4:4:4 and 4:4:4:4
Number of vertical decompositions	1, 2	0, 1, 2	0, 1, 2
Number of horizontal decompositions	[1-5]	[1-5]	[1-5]
Number components with suppressed decomposition (<i>Sd</i>)	0	0	0
Quantizer type (<i>Qp_{ih}</i>)	0 (DZQ) 1 (Uniform)	0 (DZQ) 1 (Uniform)	0 (DZQ) 1 (Uniform)
Column mode (<i>Cw</i>)	One column of full width	One column except when the number of vertical decomposition levels is zero ^a	One column except when the number of vertical decomposition levels is zero ^a
Slice height in number of image rows	16	16	16
Buffer model (<i>Tbmd</i>)	1, 2	1, 2	1, 2
Long precinct header enforcement flag (<i>Lh</i>)	0	0	0
^a — One column of full width if number of vertical decompositions larger than 0, otherwise any column width conforming with ISO/IEC 21122-1 is allowed.			

A.2.1, Figure-A.2

Replace the figure with the following figure: