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Foreword

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A list of all parts in the ISO/IEC 21122 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

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Introduction

This document is part of a series of standards for a low-latency lightweight image coding system, denoted JPEG XS.

In many use cases during production or transmission of a movie, limiting the latency and the recompression loss is a more important aspect than the compression efficiency. The JPEG XS coding system offers compression and recompression of image sequences with very moderate computational resources while remaining robust under multiple compression and decompression cycles and mixing of content sources, e.g. embedding of subtitles, overlays or logos. Typical target compression ratios ensuring visually lossless quality are in the range of 2:1 to 10:1, depending on the nature of the source material. The end-to-end latency can be confined to a fraction of a frame, typically between a small number of lines down to below a single line.

This document provides the reference software of the ISO/IEC 21122 series. It has been successfully compiled and tested on Linux®¹⁾ and Windows^{TM1)} operating systems at the time of wrizing.

¹⁾ Linux® and WindowsTM are examples of suitable products available commercially. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO or IEC of these products.

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INTERNATIONAL STANDARD

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

Part 5: **Reference software**

1 Scope

This document contains the reference software of the ISO/IEC 21122 series. It acts as a guideline for implementation and as a reference for conformance testing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 21122-1, Information technology – JPES X8 low-latency lightweight image coding system – Part 1: Core coding system

ISO/IEC 21122-2, Information technology — JPEC XS low-latency lightweight image coding system — Part 2: Profiles and buffer models

ISO/IEC 21122-4, Information technology – JPEG XS low-latency lightweight image coding system – Part 4: Conformance testing