
**Information technology — JPEG XL
image coding system —**

**Part 1:
Core coding system**

*Technologies de l'information — Système de codage d'images
JPEG XL —*

Partie 1: Système de codage de noyau





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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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Introduction

The International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent.

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Information technology — JPEG XL image coding system —

Part 1: Core coding system

1 Scope

This document defines a set of compression methods for coding one or more images of bi-level, continuous-tone greyscale, or continuous-tone colour, or multichannel digital samples.

This document:

- specifies decoding processes for converting compressed image data to reconstructed image data;
- specifies a codestream syntax containing information for interpreting the compressed image data;
- provides guidance on encoding processes for converting source image data to compressed image data.

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 15076-1:2010, *Image technology colour management — Architecture, profile format and data structure — Part 1: Based on ICC.1:2010*

ISO/IEC 60559, *Information technology — Microprocessor Systems — Floating-Point arithmetic*

IEC 61966-2-1, *Multimedia systems and equipment — Colour measurement and management — Part 2-1: Colour management — Default RGB colour space — sRGB*

Rec. ITU-R BT.2100-2, *Image parameter values for high dynamic range television for use in production and international programme exchange*

Rec. ITU-R BT.709-6, *Parameter values for the HDTV standards for production and international programme exchange*

SMPTE ST 428-1, *D-Cinema distribution master — Image characteristics*