



**International
Standard**

ISO/IEC 6048-2

**Information technology — JPEG
AI learning-based image coding
system —**

**Part 2:
Profiling**

**First edition
2026-06**



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This document was prepared by ITU-T (as Rec. ITU-T T.840.2) and drafted in accordance with its editorial rules, in collaboration with Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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INTERNATIONAL STANDARD ISO/IEC 6048-2
RECOMMENDATION ITU-T T.840.2

Information technology – JPEG AI learning-based image coding system: Profiling

Summary

Recommendation ITU-T T.840.2 | ISO/IEC 6048-2 specifies profiling for the image coding technology specified in Recommendation ITU-T T.840.1 | ISO/IEC 6048-1 known as learning-based image coding (JPEG AI).

This Recommendation | International Standard was developed collaboratively by ITU-T Study Group 21 and ISO/IEC JTC 1/SC 29 and is published as common text Rec. ITU-T T.840.2 | ISO/IEC 6048-2.

History¹

Edition	Recommendation	Approval	Study Group	Unique ID
1.0	ITU-T T.840.2	2026-01-13	21	11.1002/1000/16658

Keywords

Decoder, decoder profiles, JPEG AI, learning based image coding, levels, profiles, stream profiles.

¹ To access the Recommendation, type the URL <https://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID.

FOREWORD

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**INTERNATIONAL STANDARD
ITU-T RECOMMENDATION****Information technology – JPEG AI learning-based image coding system: Profiling****1 Scope**

This Recommendation | International Standard specifies a subset of the syntax specified in Rec. ITU-T T.840.1 | ISO/IEC 6048-1 via one Main stream profile and three decoder tool subsets as three decoder profiles. It also defines higher bounds on tile and picture sizes via levels of a decoder profile that a conforming decoder implementation shall support, and specifies profiles, each being tailored to certain application domains, and defines the levels of the profiles.

2 Normative references

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

2.1 Identical Recommendations | International Standards

- Rec. ITU-T T.840.1 (2025) | ISO/IEC 6048-1:2025, *Information technology – JPEG AI learning-based image coding system: Core coding system*.

2.2 Paired Recommendations | International Standards equivalent in technical content

- None.

2.3 Additional references

- None.