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Note:

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SMPTE STANDARD

SMPTE 308M-2004

Revision of
SMPTE 308M-1998

for Television — MPEG-2 4:2:2 Profile at High Level



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1 Scope

ISO/IEC 13818-2, commonly known as MPEG-2 video, includes specification of the MPEG-2 4:2:2 profile. Based on ISO/IEC 13818-2, this standard provides additional specification for the MPEG-2 4:2:2 profile at high level. It is intended for use in high-definition television production, contribution, and distribution applications. As in ISO/IEC 13818-2, this standard defines bit streams, including their syntax and semantics, together with the requirements for a compliant decoder for 4:2:2 profile at high level, but does not specify particular encoder operating parameters.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

ISO/IEC 13818-2:2000, Information Technology — Generic Coding of Moving Pictures and Associated Audio Information: Video

3 4:2:2 high profile

The MPEG-2 4:2:2 profile at main level is defined in ISO/IEC 13818-2. Only those additional parameters necessary to define the 4:2:2 profile at high level are specified in this standard.

3.1 Profile_and_level indication

The 4:2:2 high profile does not have a hierarchical relationship to other profiles. The profile_and_level_identification shall be 10000010 (see ISO/IEC 13818-2, table 8-4).

3.2 Syntactic constraints

Syntactic constraints for the 4:2:2 profile are specified in ISO/IEC 13818-2. No new constraints are specified for the 4:2:2 profile at high level (see ISO/IEC 13818-2, table 8-5).

3.3 Parameter constraints

The parameter constraints for the 4:2:2 profile at high level are the same as those for the main profile at the main level, except as follows: