

SMPTE STANDARD

D-Cinema Packaging —
Stereoscopic Picture Track File



Table of Contents	Page
Foreword	2
1 Scope	3
2 Conformance Notation	3
3 Normative References	3
4 Glossary of Acronyms and Terms.....	4
5 Stereoscopic Picture Track File Structure.....	4
6 MainStereoscopicPicture Element.....	5
7 Composition Playlist Constraints	6
7.1 CPL Reels	6
7.2 MainStereoscopicPicture Assets	6
7.2.1 Edit Rate	6
7.2.2 Frame Rate	6
8 Schema	6
9 Sample (Informative).....	7
Annex A Stereoscopic Picture Sub-Descriptor (Normative)	8
Annex B Bibliography (Informative)	10

Foreword

SMPTE (the Society of Motion Picture and Television Engineers) is an internationally-recognized standards developing organization. Headquartered and incorporated in the United States of America, SMPTE has members in over 80 countries on six continents. SMPTE's Engineering Documents, including Standards, Recommended Practices and Engineering Guidelines, are prepared by SMPTE's Technology Committees. Participation in these Committees is open to all with a bona fide interest in their work. SMPTE cooperates closely with other standards-developing organizations, including ISO, IEC and ITU.

SMPTE Engineering Documents are drafted in accordance with the rules given in Part XIII of its Administrative Practices.

SMPTE Standard 429-10 was prepared by Technology Committee DC28.

1 Scope

This document provides the definition of a single MXF file design for Stereoscopic Picture content wrapping. It also defines a new Composition Playlist (CPL) extension element to reference such Stereoscopic Picture Track File.

2 Conformance Notation

Normative text is text that describes elements of the design that are indispensable or contains the conformance language keywords: "shall", "should", or "may". Informative text is text that is potentially helpful to the user, but not indispensable, and can be removed, changed, or added editorially without affecting interoperability. Informative text does not contain any conformance keywords.

All text in this document is, by default, normative, except: the Introduction, any section explicitly labeled as "Informative" or individual paragraphs that start with "Note:"

The keywords "shall" and "shall not" indicate requirements strictly to be followed in order to conform to the document and from which no deviation is permitted.

The keywords, "should" and "should not" indicate that, among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required; or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited.

The keywords "may" and "need not" indicate courses of action permissible within the limits of the document.

The keyword "reserved" indicates a provision that is not defined at this time, shall not be used, and may be defined in the future. The keyword "forbidden" indicates "reserved" and in addition indicates that the provision will never be defined in the future.

A conformant implementation according to this document is one that includes all mandatory provisions ("shall") and, if implemented, all recommended provisions ("should") as described. A conformant implementation need not implement optional provisions ("may") and need not implement them as described.

3 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were 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 standards indicated below.

ANSI/SMPTE 298M-1997, Television — Universal Labels for Unique Identification of Digital Data

SMPTE 377M-2004, Television — Material Exchange Format (MXF), File Format Specification

SMPTE 429-3-2006, D-Cinema Packaging — Sound and Picture Track File

SMPTE 429-7-2006, D-Cinema Packaging — Composition Playlist

SMPTE RP 210, Metadata Dictionary Registry of Metadata Element Descriptions

World Wide Web Consortium (W3C) (2004, February 4) — Extensible Markup Language (XML) 1.0 (Third Edition), see <http://www.w3.org/TR/2004/REC-xml-20040204/>

World Wide Web Consortium (W3C) (2004, October 28) — XML Schema Part 1: Structures (Second Edition), see <http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/>