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NUMERICAL INDEX OF SMPTE STANDARDS, RECOMMENDED PRACTICES,  
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(Revised December 19, 2017)

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**ST 371:2002 (Archived 2007)** Television – 6.35-mm Type D-12 Component Format – Digital Recording at 100 Mb/s 1080/60i, 1080/50i, 720/60p

**ST 372:2017** Dual Link 1.5 Gb/s Digital Interface for 1920 x 1080 and 2048 x 1080 Picture Formats

**ST 374:2003 (Archived 2010)** Television – Mapping of Vertical Ancillary Data Packets and Extended Video Line Data into Video DIF Blocks of DV-Based 50 Mb/s DIF Stream Format

**ST 375:2003 (Archived 2010)** Television – Mapping of Vertical Ancillary Data Packets (VANC) into VAUX DIF Blocks of DV-Based 100 Mb/s DIF Stream Format

**ST 376:2003 (Archived 2010)** Television – Mapping of Vertical Ancillary Data Packets (VANC) into VAUX DIF Blocks of DV-Based 25 Mb/s or 50 Mb/s Streams and Extended Video Line Data into VAUX DIF Blocks of DV-Based 25 Mb/s DIF Stream

**ST 377-1:2011** Material Exchange Format (MXF) – File Format Specification

**Amendment 1:2012 to ST 377-1:2011**

**Amendment 2:2012 to ST 377-1:2011**

**ST 377-4:2012** MXF Multichannel Audio Labeling Framework

**ST 378:2004 (Archived 2010)** Television – Material Exchange Format (MXF) – Operational Pattern 1a (Single Item, Single Package)

**OV 379-0:2015** Material Exchange Format (MXF) – MXF Generic Container – Overview for the SMPTE ST 379 Document Suite

**ST 379-1:2009 (Stabilized 2015)** Material Exchange Format (MXF) – MXF Generic Container

**ST 379-2:2010 (Stabilized 2016)** Television - Material Exchange Format (MXF) – MXF Constrained Generic Container



**ST 380:2004** Television – Material Exchange Format (MXF) – Descriptive Metadata Scheme-1 (Standard, Dynamic)

**ST 381-1:2005 (Archived 2011)** Television – Material Exchange Format (MXF) – Mapping MPEG Streams into the MXF Generic Container (Dynamic)

**ST 381-2:2011** Material Exchange Format (MXF) – Mapping MPEG Streams into the MXF Constrained Generic Container

**ST 381-3:2017** Material Exchange Format (MXF) – Mapping AVC Streams into the MXF Generic Container  
**PLEASE NOTE:** This document replaced RP 2008:2008.

**ST 381-4:2017** Mapping AAC Compressed Audio into the MXF Generic Container

**ST 382:2007** Material Exchange Format – Mapping AES3 and Broadcast Wave Audio into the MXF Generic Container

**Amendment 1:2012 to ST 382:2007**

**Amendment 2:2013 to ST 382:2007**

**ST 383:2008** Television – Material Exchange Format (MXF) – Mapping DV-DIF Data to the MXF Generic Container (R2013)

**ST 384:2005** Television – Material Exchange Format (MXF) – Mapping of Uncompressed Pictures into the Generic Container (R2013)

**ST 385:2012** Material Exchange Format (MXF) – Mapping SDTI-CP Essence and Metadata into the MXF Generic Container

**ST 386:2004 (Archived 2010)** Television – Material Exchange Format (MXF) – Mapping Type D-10 Essence Data to the MXF Generic Container

**ST 387:2004 (Archived 2010)** Television – Material Exchange Format (MXF) – Mapping Type D-11 Essence Data to the MXF Generic Container

**ST 388:2004 (Archived 2010)** Television – Material Exchange Format (MXF) – Mapping A-law Coded Audio into the MXF Generic Container

**ST 389:2005** Television – Material Exchange Format (MXF) – MXF Generic Container Reverse Play System Element (R2013)

**ST 390:2011 (Stabilized 2016)** Material Exchange Format (MXF) – Specialized Operational Pattern “OP-Atom” (Simplified Representation of a Single Item)

**ST 391:2004 (Archived 2010)** Television – Material Exchange Format (MXF) – Operational Pattern 1b (Single Item, Ganged Packages)

**ST 392:2013** Material Exchange Format (MXF) – Operational Pattern 2a (Play-List Items, Single Package)

**ST 393:2004 (Archived 2010)** Television – Material Exchange Format (MXF) – Operational Pattern 2b (Play-List Items, Ganged Packages)

**ST 394:2006** Television – Material Exchange Format (MXF) – System Scheme 1 for the MXF Generic Container (R2013)

**ST 395:2014** Metadata Groups Register

**ST 396:2003** Television – Packet Format and Transmission Timing of DV-Based Data Streams over IEEE 1394

**ST 397:2003 (Archived 2010)** Television – Declarative Data Essence – Transitional

**ST 398:2004 (Archived 2010)** Digital Video Recording – 1/2-in Type D-14 Component Format – 525/60 and 625/50

**ST 399:2004 (Archived 2010)** Digital Television Recording – 1/2-in Type D-15 High-Definition Compressed Video Data Format

**ST 400:2012** SMPTE Labels Structure

**ST 401:2005** Television – Extended Content Control Information (ExCCI) Data Packet

**ST 402:2003 (Archived 2010)** Television – A Data Reduction Method for the MPEG-2 Video Recording Data Set

**ST 405:2006** Television – Material Exchange Format (MXF) – Elements and Individual Data Items for the MXF Generic Container System Scheme 1 (R2013)

**ST 407:2006** Television – Material Exchange Format (MXF) – Operational Patterns 3a and 3b (R2013)

**ST 408:2006** Television – Material Exchange Format (MXF) – Operational Patterns 1c, 2c and 3c (R2013)

**ST 409:2005** Digital Television Tape Recording – 12.65-mm Type D-16 Format

**ST 410:2008** Material Exchange Format – Generic Stream Partition (R2013)

**ST 411:2006 (Stabilized 2015)** Motion-Picture Film – Cinematography – Spectral Response of Photographic Audio Reproducers for Analog Dye Sound Tracks on 35-mm Film

**ST 417:2005 (Stabilized 2015)** Motion-Picture Film (65-mm) – Camera Aperture Image and Usage, 15/70 Format

**ST 418:2005 (Stabilized 2015)** Motion-Picture Film (65-mm) – Camera Aperture Image and Usage, 8/70 Format

**ST 419:2005 (Stabilized 2016)** Motion-Picture Film (70-mm) – Projectable Image Area, 15/70 Format

**ST 420:2005 (Stabilized 2016)** Motion-Picture Film (70-mm) – Projectable Image Area, 8/70 Format

**ST 421:2013** VC-1 Compressed Video Bitstream Format and Decoding Process

**ST 422:2014** Material Exchange Format – Mapping JPEG 2000 Codestreams into the MXF Generic Container

**Amendment 1:2014 to SMPTE ST 422:2013**

**ST 424:2012** 3 Gb/s Signal/Data Serial Interface

**OV 425-0:2014 (Revision of SMPTE 425-0:2012-06)** SMPTE Bit-Serial Interfaces at 3 Gb/s – Roadmap for the 425 Document Suite

**ST 425-1:2017** Source Image Format and Ancillary Data Mapping for the 3 Gb/s Serial Interface

**Amendment 1:2014 to SMPTE ST 425-1:2011**

**ST 425-2:2012** Source Image Format and Ancillary Data Mapping for Stereoscopic Image Formats on a Single-Link 3 Gb/s Serial Interface

**ST 425-3:2015** Image Format and Ancillary Data Mapping for the Dual Link 3 Gb/s Serial Interface

**Amendment 1:2015 to SMPTE ST 425-3:2014**

**ST 425-4:2012** Dual 3 Gb/s Serial Digital Interface for Stereoscopic Image Transport

**ST 425-5:2015** Image Format and Ancillary Data Mapping for the Quad Link 3 Gb/s Serial Interface

**ST 425-6:2014** Quad 3 Gb/s Serial Digital Interface for Stereoscopic Image Transport (R2016)

**ST 427:2009** Link Encryption for 1.5 Gb/s Serial Digital Interface

**ST 428-1:2006** D-Cinema Distribution Master – Image Characteristics

**ST 428-2:2006** D-Cinema Distribution Master – Audio Characteristics

**ST 428-3:2006** D-Cinema Distribution Master – Audio Channel Mapping and Channel Labeling

**ST 428-7:2014** D-Cinema Distribution Master – Subtitle

**ST 428-9:2008** D-Cinema Distribution Master – Image Pixel Structure Level 3 – Serial Digital Interface Signal Formatting

**ST 428-10:2008** D-Cinema Distribution Master – Closed Caption and Closed Subtitle

**ST 428-11:2013** Additional Frame Rates for D-Cinema

**ST 428-12:2013** D-Cinema Distribution Master – Common Audio Channels and Soundfield Groups

**ST 428-19:2010** D-Cinema Distribution Master – Additional Frame Rates Level AFR2 and Level AFR4 – Serial Digital Interface Signal Formatting

**ST 428-21:2011** Archive Frame Rates for D-Cinema

**ST 429-2:2013** D-Cinema Packaging – DCP Operational Constraints

**ST 429-3:2007** D-Cinema Packaging – Sound and Picture Track File

**ST 429-4:2006** D-Cinema Packaging – MXF JPEG 2000 Application

**ST 429-5:2009** D-Cinema Packaging – Timed Text Track File

**ST 429-6:2006** D-Cinema Packaging – MXF Track File Essence Encryption

**ST 429-7:2006** D-Cinema Packaging – Composition Playlist

**ST 429-8:2007** D-Cinema Packaging – Packing List

**ST 429-9:2014** D-Cinema Packaging – Asset Mapping and File Segmentation

**ST 429-10:2008** D-Cinema Packaging – Stereoscopic Picture Track File

**ST 429-12:2008** D-Cinema Packaging – Caption and Closed Subtitle

**ST 429-13:2009** D-Cinema Packaging – DCP Operational Constraints for Additional Frame Rates

**ST 429-14:2014** D-Cinema Packaging – Aux Data Track File

**ST 429-16:2014** Additional Composition Metadata and Guidelines

**ST 430-1:2017** D-Cinema Operations – Key Delivery Message

**ST 430-2:2017** D-Cinema Operations – Digital Certificate

**ST 430-3:2012** D-Cinema Operations – Generic Extra-Theater Message Format

**ST 430-4:2008** D-Cinema Operations – Log Record Format Specification

**Amendment 1:2011 to ST 430-4:2008**

**ST 430-5:2011** D-Cinema Operations – Security Log Event Class and Constraints

**ST 430-6:2010** D-Cinema Operations – Auditorium Security Messages for Intra-Theater Communications

**ST 430-7:2008** D-Cinema Operations – Facility List Message

**Amendment 1:2011 to ST 430-7:2008**

**ST 430-9:2008** D-Cinema Operations – Key Delivery Bundle

**Amendment 1:2011 to ST 430-9:2008**

**ST 430-10:2010** D-Cinema Operations – Auxiliary Content Synchronization Protocol

**ST 430-11:2010** D-Cinema Operations – Auxiliary Resource Presentation List

**ST 430-12:2014** D-Cinema Operations – FSK Synchronization Signal

**ST 430-14:2015** D-Cinema Operations – Digital Sync Signal and Aux Data Transfer Protocol

**ST 430-15:2017** D-Cinema Operations – Facility List Message Exchange Protocol

**ST 430-16:2017** D-Cinema Operations – Extended Facility List Message

**ST 431-1:2006** D-Cinema Quality – Screen Luminance Level, Chromaticity and Uniformity

**ST 433:2008** D-Cinema – XML Data Types

**Amendment 1:2011 to ST 433:2008**

**ST 434:2014** Material Exchange Format – XML Encoding for Metadata and File Structure Information

**OV 435-0:2012** 10 Gb/s Serial Signal/Data Interface – Roadmap

**ST 435-1:2012** 10 Gb/s Serial Signal/Data Interface – Part 1: Basic Stream Derivation

**ST 435-2:2012** 10 Gb/s Serial Signal/Data Interface – Part 2: 10.692 Gb/s Stream – Basic Stream Mapping

**ST 435-3:2012** 10 Gb/s Serial Signal/Data Interface – Part 3: 10.692 Gb/s Optical Fiber Interface

**ST 436-1:2013** MXF Mappings for VI Lines and Ancillary Data Packets

**ST 2001-1:2015** XML Representation of SMPTE Registered Data (Reg-XML) – Mapping Rules

**ST 2001-2:2014** XML Representation of SMPTE Registered Data (Reg-XML) – AAF and MXF

**ST 2003:2012** Types Dictionary Structure

**ST 2010:2008** Vertical Ancillary Data Mapping of ANSI/SCTE 104 Messages

**ST 2016-1:2009** Format for Active Format Description and Bar Data

**ST 2016-2:2014** Format for Pan-Scan Information

**ST 2016-3:2009** Vertical Ancillary Data Mapping of Active Format Description and Bar Data

**ST 2016-4:2014** Vertical Ancillary Data Mapping of Pan-Scan Information

**ST 2016-5:2009** KLV Coding for Active Format Description, Bar Data and Pan-Scan Information  
**PLEASE NOTE:** WITHDRAWN 2012. This document is available for historical purposes only.

**ST 2019-1:2016** VC-3 Picture Compression and Data Stream Format

**ST 2019-3:2008** VC-3 Type Data Stream Mapping over SDTI

**ST 2019-4:2016** Mapping VC-3 Coding Units into the MXF Generic Container

**ST 2020-1:2014** Format of Audio Metadata and Description of the Asynchronous Serial Bitstream Transport

**ST 2020-2:2014** Vertical Ancillary Data Mapping of Audio Metadata – Method A

**ST 2020-3:2014** Vertical Ancillary Data Mapping of Audio Metadata – Method B

**OV 2021-0:2017** Broadcast Exchange Format - Roadmap for the 2021 Document Suite

**ST 2021-1:2017** Broadcast Exchange Format (BXF) - Requirements and Informative Notes

**ST 2021-2:2017** Broadcast Exchange Format (BXF) - Protocol

**ST 2022-1:2007** Forward Error Correction for Real-Time Video/Audio Transport Over IP Networks

**ST 2022-2:2007** Unidirectional Transport of Constant Bit Rate MPEG-2 Transport Streams on IP Networks

**ST 2022-3:2010** Unidirectional Transport of Variable Bit Rate MPEG-2 Transport Streams on IP Networks

**ST 2022-4:2011** Unidirectional Transport of Non-Piecewise Constant Variable Bit Rate MPEG-2 Streams on IP Networks

**ST 2022-5:2013** Forward Error Correction for High Bit Rate Media Transport Over IP Networks

**ST 2022-6:2012** Transport of High Bit Rate Media Signals Over IP Networks (HBRMT)

**ST 2022-7:2013** Seamless Protection Switching of SMPTE ST 2022 IP Datagrams

**ST 2029:2009** Uniform Resource Names for SMPTE Resources

**ST 2031:2015** Carriage of DVB/SCTE VBI Data in VANC

**ST 2032-1:2007** Media Dispatch Protocol (MDP) – Protocol Specification

**ST 2032-2:2007** Media Dispatch Protocol (MDP) – MDP/XML/HTTP Mapping Specification

**ST 2032-3:2007** Media Dispatch Protocol (MDP) – Basic Target Pull Profile Specification

**ST 2034-1:2017** Archive eXchange Format (AXF) – Part 1: Structure & Semantics

**ST 2035:2009** Audio Channel Assignments for Digital Television Recorders (DTRs)

**Amendment 1:2012 to SMPTE ST 2035:2009**

**OV 2036-0:2015** Ultra High Definition Television – Overview for the SMPTE ST 2036 Document Suite

**ST 2036-1:2014** Ultra High Definition Television – Image Parameter Values for Program Production

**ST 2036-2:2008** Ultra High Definition Television – Audio Characteristics and Audio Channel Mapping for Program Production (R2013)

**ST 2036-3:2015** Ultra High Definition Television – Mapping into Single-link or Multi-link 10 Gb/s Serial Signal/Data Interface

**ST 2036-4:2015** Ultra High Definition Television – Multi-link 10 Gb/s Signal/Data Interface Using 12-Bit Width Container

**ST 2037:2009 (Stabilized 2016)** Mapping VC-1 into the MXF Generic Container

**ST 2038:2008** Carriage of Ancillary Data Packets in an MPEG-2 Transport Stream

**ST 2041-1:2010** Format for Non-PCM Audio in AES3 – MPEG Layer I, II and II Audio

**ST 2041-2:2010** Format for Non-PCM Audio in AES3 – MPEG-2 AAC and HE AAC Audio in ADTS

**ST 2041-3:2010** Format for Non-PCM Audio and Data in AES3 – MPEG-4 AAC and HE AAC Compressed Digital Audio in ADTS and

LATM/LOAS Wrappers

**ST 2042-1:2012** VC-2 Video Compression

**ST 2042-2:2017** VC-2 Level Definitions

**ST 2042-4:2016** Mapping a VC-2 Stream into the MXF Generic Container

**ST 2045:2010** Register Interchange Format

**ST 2046-1:2009** Specifications for Safe Action and Safe Title Areas for Television

**ST 2047-2:2010** Carriage of VC-2 Compressed Video Over HD-SDI

**ST 2047-4:2011** Carriage of Level 65 VC-2 Compressed Video Over the SDTV SDI

**OV 2048-0:2012** 2048 x 1080 and 4096 x 2160 Digital Cinematography Production Image Formats FS/709 – Roadmap for the 2048 Document Suite

**ST 2048-1:2011** 2048 x 1080 and 4096 x 2160 Digital Cinematography Production Image Formats FS/709

**Amendment 1:2016 to SMPTE ST 2048-1:2011**

**ST 2048-2:2011** 2048 x 1080 Digital Cinematography Production Image FS/709 Formatting for Serial Digital Interface

**ST 2048-3:2012** 4096 x 2160 Digital Cinematography Production Image Formats FS/709 – Mapping into Multi-link 10 Gb/s Serial Signal/Data Interface (R2013)

**ST 2049:2012** Low Latency Streaming MXF OP 1a

**ST 2051:2014** Two-Frame Marker for 48/(1.001)-Hz, 50-Hz and 60(1.001)-Hz Progressive Digital Video Signals on 1.5 Gb/s and 3 Gb/s Interfaces

**OV 2052-0:2013** SMPTE-TT and Format Translation – Roadmap for the 2052 Document Suite

**ST 2052-1:2013** Timed Text Format (SMPTE-TT)

**ST 2053:2011** Media Package for Storage, Distribution and Playback of Multimedia File Sets and Internet Resources

**ST 2056:2011** MPEG TS Packets Carried in VANC

**ST 2058-1:2010** VC-4 Layered Video Extension Bitstream Format and Decoding Process

**ST 2059-1:2015** Generation and Alignment of Interface Signals to the SMPTE Epoch

**ST 2059-2:2015** SMPTE Profile for Use of IEEE-1588 Precision Time Protocol in Professional Broadcast Applications

**ST 2063:2012** Stereoscopic 3D Full Resolution Contribution Link Based on MPEG-2 TS

**ST 2064-1:2015** Audio to Video Synchronization Measurement – Fingerprint Generation

**ST 2064-2:2015** Audio to Video Synchronization Measurement – Fingerprint Transport

**ST 2065-1:2012** Academy Color Encoding Specification (ACES) (R2013)

**ST 2065-2:2012** Academy Printing Density (APD) – Spectral Responsivities, Reference Measurement Device and Spectral Calculation (R2013)

**ST 2065-3:2012** Academy Density Exchange Encoding (ADX) – Encoding Academy Printing Density (APD) Values (R2013)

**ST 2065-4:2013** ACES Image Container File Layout

**ST 2065-5:2016** Material Exchange Format – Mapping ACES Image Sequences into the MXF Generic Container

**ST 2066:2012** Disparity Map Representation for Stereoscopic 3D (R2016)

**ST 2067-0:2017** Interoperable Master Format – Overview for the SMPTE 2067 Document Suite

**ST 2067-2:2016** Interoperable Master Format – Core Constraints

**ST 2067-3:2016** Interoperable Master Format – Composition Playlist

**ST 2067-5:2013** Interoperable Master Format – Essence Component

**Amendment 1:2016 to ST 2067-5:2013**

- ST 2067-8:2013 Interoperable Master Format – Common Audio Labels
- ST 2067-20:2016 Interoperable Master Format – Application #2
- ST 2067-21:2016 Interoperable Master Format – Application #2 Extended
- ST 2067-30:2013 Interoperable Master Format – Application #3
- ST 2067-40:2016 Interoperable Master Format – Application #4 Cinema Mezzanine
- ST 2067-100:2014 Interoperable Master Format – Output Profile List
- ST 2067-101:2014 Interoperable Master Format – Output Profile List – Common Image Definitions and Macros
- ST 2067-102:2017 Interoperable Master Format – Common Image Pixel Color Schemes
- ST 2067-103:2014 Interoperable Master Format – Output Profile List – Common Audio Definition and Macros
- ST 2068:2013 Stereoscopic 3D Frame Compatible Packaging and Signaling for HDTV
- ST 2070-1:2014 Stereoscopic 3D in MXF for Operations – Common Provisions
- ST 2070-2:2014 Stereoscopic 3D in MXF for Operations – OP1a Mapping
- ST 2070-3:2014 Stereoscopic 3D in MXF for Operations – Op-Atom or Single Track OP-1a Mapping
- ST 2071-1:2016 Media Device Control Framework (MDCF)
- ST 2071-2:2016 Media Device Control Protocol (MDCP)
- ST 2071-3:2014 Media Device Control Discovery (MDCD)
- OV 2073-0:2016 VC-5 Video Essence – Overview for the SMPTE 2073 Document Suite
- ST 2073-1:2017 VC-5 Video Essence – Part 1: Elementary Bitstream
- ST 2073-3:2015 VC-5 Video Essence – Part 3: Image Formats (R2016)
- ST 2073-4:2015 VC-5 Video Essence – Part 4: Subsampled Color Difference Components (R2016)
- ST 2073-5:2015 VC-5 Video Essence – Part 5: Layers
- ST 2073-6:2015 VC-5 Video Essence – Part 6: Sections
- ST 2073-10:2017 MXF - Mapping VC-5 Video Essence into the MXF Genetic Container
- ST 2075:2013 Mapping EBU TECH 3264 (STL) into the MXF Generic Stream Container
- ST 2080-1:2014 Reference White Luminance Level and Chromaticity for HDTV (R2016)
- ST 2080-3:2017 Reference Viewing Environment for Evaluation of HDTV Images HDTV
- OV 2081-0:2016 6G-SDI Bit-Serial Interfaces – Overview for the SMPTE ST 2081 Document Suite
- ST 2081-1:2015 6 Gb/s Signal/Data Serial Interface – Electrical

**Amendment 1:2016 to SMPTE ST 2081-1:2015**

- ST 2081-10:2015 2160-Line and 1080-Line Source Image and Ancillary Data Mapping for Single-Link 6G-SDI
- ST 2081-11:2016 2160-Line Source Image and Ancillary Data Mapping for Dual-Link 6G-SDI
- ST 2081-12:2016 4320-Line and 2160-Line Source Image and Ancillary Data Mapping for Quad-Link 6G-SDI
- ST 2081-30:2017 Transport of Multiple 3Gb/s or 1.5Gb/s Signals on a 6G-SDI Link
- OV 2082-0:2016 12G-SDI Bit-Serial Interfaces – Overview for the SMPTE ST 2082 Document Suite
- ST 2082-1:2015 12 Gb/s Signal/Data Serial Interface – Electrical

**Amendment 1:2016 to SMPTE ST 2082-1:2015**

**ST 2082-10:2015** 2160-Line Source Image and Ancillary Data Mapping for 12G-SDI

**ST 2082-11:2016** 4320-Line and 2160-Line Source Image and Ancillary Data Mapping for Dual-Link 12G-SDI

**ST 2082-12:2016** 4320-Line and 2160-Line Source Image and Ancillary Data Mapping for Quad-Link 12G-SDI

**ST 2082-30:2017** Transport of Multiple 6Gb/s, 3Gb/s or 1.5Gb/s Signals on a 12G-SDI Link

**ST 2084:2014** High Dynamic Range Electro-Optical Transfer Function of Mastering Reference Displays

**ST 2085:2015** Y'D'zD'x Color-Difference Computations for High Dynamic Range X'Y'Z' Signals (R2016)

**ST 2086:2014** Mastering Display Color Volume Metadata Supporting High Luminance and Wide Color Gamut Images

**ST 2087:2016** Depth Map Representation

**ST 2091-1:2017** Ruggedized Fiber-Optic Connectors for HDTV and UHDTV SDI

**OV 2094-0:2017** Dynamic Metadata for Color Volume Transformation – Overview for the SMPTE ST 2094 Document Suite

**ST 2094-1:2016** Dynamic Metadata for Color Volume Transform – Core Components

**ST 2094-2:2017** Dynamic Metadata for Color Volume Transform – KLV Encoding and MXF Mapping

**ST 2094-10:2016** Dynamic Metadata for Color Volume Transform – Application #1

**ST 2094-20:2016** Dynamic Metadata for Color Volume Transform – Application #2

**ST 2094-30:2016** Dynamic Metadata for Color Volume Transform – Application #3

**ST 2094-40:2016** Dynamic Metadata for Color Volume Transform – Application #4

**ST 2095-1:2015** Calibration Reference Wideband Digital Pink Noise Signal

**ST 2100-1:2017** Definition and Representation of Haptic-Tactile Essence for Broadcast Production Applications

**ST 2101:2015** Format for Non-PCM Audio and Data in AES 3 – AC-4 Data Type

**ST 2102:2017** SMPTE Core Metadata

**ST 2106:2016** Format for Non-PCM Audio in AES 3 – Type17 Compressed Audio

**ST 2110-10:2017** Professional Media Over Managed IP Networks: System Timing and Definitions

**ST 2110-20:2017** Professional Media Over Managed IP Networks: Uncompressed Active Video

**ST 2110-21:2017** Professional Media Over Managed IP Networks: Traffic Shaping and Delivery

**ST 2110-30:2017** Professional Media Over Managed IP Networks: PCM Digital Audio

**ST 2114:2017** Unique Digital Media Identifier (C4 ID)

## **RECOMMENDED PRACTICES**

**RP 6:1994 (Archived 2004)** Recorded Carrier Frequencies and Preemphasis Characteristics for 2-in Quadruplex Video Magnetic Tape Recording for 525-Line/60-Field Television Systems

**RP 9:1995 (Archived 2004)** Dimensions of Double-Frame 35-mm 2x2 Slides for Precise Applications in Television

**RP 11:1994 (Archived 2004)** Tape Vacuum Guide Configuration and Position for Quadruplex Video Magnetic Tape Recording

**RP 12:1997 (Stabilized 2012)** Screen Luminance for Drive-In Theaters

**RP 14:1997 (Stabilized 2015)** Plotting Data from Sensitometric Strips Exposed on Type Ib (Intensity Scale) Sensitometers

**RP 15:1997 (Stabilized 2016)** Calibration of Densitometers Used for Black-and-White Photographic Density Measurements

**RP 16:1993 (Archived 2010)** Specifications of Tracking Control Record for 2-in Quadruplex Video Magnetic Tape Recordings

**RP 17:1964 (Archived 2009)** Photographic Recording Technique for Measuring High-Speed Camera Image Unsteadiness

**RP 18:1995 (Archived 2003)** Specifications for Test Film for Subjective Checking of 16-mm Motion-Picture Audio Projectors

**RP 19:2003 (Archived 2008)** Specifications for 8-mm Type R Registration Test Film

**RP 20:2003 (Archived 2010)** Specifications for 16-mm Registration Test Film

**RP 21:2015** Dimensions of 35-mm and 70-mm Motion-Picture Rewind Spindles

**RP 24:1997 (Stabilized 2015)** Dimensions for 16-mm Motion-Picture Camera

**RP 25:2011 (Stabilized 2016)** Audio and Picture Synchronization in Motion-Picture Film Relative to Leaders for Television and Theatrical Presentation for Magnetic and Photographic Records

**RP 27.1:1989 (Archived 2004)** Specifications for Operational Alignment Test Pattern for Television

**RP 27.2:1989 (Archived 2004)** Specifications for Operational Registration Test Pattern for Multiple-Channel Television Cameras

**RP 27.3:1989 (Archived 2004)** Specifications for Safe Action and Safe Title Areas Test Pattern for Television Systems

**RP 27.4:1994 (Archived 2004)** Specifications for an Operational Test Pattern for Checking Jitter, Weave and Travel Ghost in Television Projectors

**RP 27.5:1989 (Archived 2004)** Specifications for Mid-Frequency Response Test Pattern for Television

**RP 32:1995 (Archived 2004)** Specifications for 8-mm Type S Test Film for Projectors and Printers Reel Spindles

**RP 34:1998 (Archived 2010)** Dimensions for 16-mm Motion-Picture Projector Reel Spindles

**RP 36:1999 (Archived 2004)** Positioning the Headwheel and Adjacent Tape Guides for 2-in Quadruplex Video Magnetic Tape Recorders

**RP 38-1:1989 (Archived 2004)** Specifications for Deflection Linearity Test Pattern for Television

**RP 39:1993** Specifications for Maintaining an Emulsion-In Orientation on Theatrical Release Prints (R2007)

**RP 40:2003 (Stabilized 2016)** Specifications for 35-mm Projector Alignment and Screen Image Quality Test Film

**RP 45:1972 (Archived 2010)** Use and Care of Sound Test Films

**RP 47:1999 (Archived 2004)** Electronic Method of Dropout Detection and Counting

**RP 48:1999 (Archived 2009)** Lubrication of 16- and 8-mm Motion-Picture Prints

**RP 49:1995 (Archived 2004)** Leaders for 8-mm Type R and S Motion-Picture Release Prints Used in Continuous-Loop Cartridges

**RP 50:1995 (Archived 2004)** Dimensions for 8-mm Type S Motion-Picture Projector Reel Spindles

**RP 51:1995 (Archived 2004)** Screen Luminance and Viewing Conditions for 8-mm Review Rooms

**RP 53:1993 (Archived 2008)** Scene-Change Methods for Printing 35-mm, 16-mm and 8-mm Type S Motion-Picture Film

**RP 54:1999 (Archived 2004)** Edge Numbering on 16-mm Release Prints

**RP 55:1997 (Stabilized 2015)** 8-mm Type S Sprocket Design

**RP 56:2002** Safe Action and Safe Title Areas for 8-mm Release Prints (R2007)

**RP 58:1995 (Archived 2004)** Nomenclature for Devices Enclosing 8-mm Motion-Picture Film for Projection

**RP 59:1999 (Archived 2004)** Color and Luminance of Review Room Screens for Viewing Motion-Picture Materials Intended for Slides or Film Strips

**RP 63:2002 (Stabilized 2015)** Specifications for Sound-Focusing Test Film for 16-mm Audio Reproducers, Photographic Type

**RP 64:1999 (Archived 2004)** Specifications for Audio-Focusing Test Film for 35-mm Audio Reproducers, Photographic Type

**RP 65:2000 (Stabilized 2015)** Motion-Picture Enlargement/Reduction Ratios

**RP 67:2002 (Stabilized 2015)** Specifications for Buzz-Track Test Film for 16-mm Motion-Picture Audio Reproducers, Photographic Type

**RP 68:2002 (Stabilized 2015)** Specifications for Buzz-Track Test Film for 35-mm Motion-Picture Photographic Audio Reproducers

**RP 69:2002 (Stabilized 2015)** Specifications for Scanning-Beam Uniformity Test Film for 35-mm Motion-Picture Audio Reproducers

**RP 70:2002 (Stabilized 2015)** Specifications for Flutter Test Film for 16-mm Audio Reproducers, Photographic Type

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