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Engineers***

**ENGINEERING COMMITTEE
Digital Video Subcommittee**

AMERICAN NATIONAL STANDARD

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**Digital Video Systems Characteristics
Standard for Cable Television**

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MPEG-2 DIGITAL VIDEO SYSTEMS CHARACTERISTICS

STANDARD FOR CABLE TELEVISION

1. SCOPE

This standard contains the constraints and extensions for the use of MPEG-2 video coding in cable television systems.

2. REFERENCES

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

2.1 Normative references

All standards are subject to revision; and while parties to any agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents may not be compatible with the referenced version.

The following documents contain provisions that through reference in this text constitute provisions of this standard.

1. ISO/IEC 13818-1, Information technology — Generic coding of moving pictures and associated audio information: Systems (2013).
2. ISO/IEC 13818-2, Information technology — Generic coding of moving pictures and associated audio information: Video (2013).
3. CEA-608-E (2008), CEA Standard - Line 21 Data Services.
4. CEA-708-E (2013), CEA Standard - Digital Television (DTV) Closed Captioning.
5. CEA-708.1 (2012), CEA Standard - Digital Television (DTV) Closed Captioning: 3D Extensions.
6. SCTE 21 (2012), Standard for Carriage of NTSC VBI Data in Cable Digital Transport Streams.
7. SCTE 20 (2012), Method for Carriage of Closed Captions and Non-Real Time Sampled Video.
8. ATSC A/53 Part 4:2009, Digital Television Standard: Part 4 – MPEG-2 Video System Characteristics.
9. SMPTE ST 170:2004, Standard for Television – Composite Analog Video Signal, NTSC for Studio Applications.

2.2 Informative references

10. SMPTE RP 202, Video Alignment for Compression Coding.
11. SMPTE ST 274, Standard for television, 1920 x 1080 Scanning and Analog and Parallel Digital Interfaces for Multiple Picture Rates.
12. SMPTE ST 296, Standard for television, 1280 x 720 Progressive Image Sample Structure, Analog and Digital Representation and Analog Interface.
13. ITU-R BT.601, Encoding parameters of digital television for studios.
14. ITU-R BT.709, Parameter Values for the HDTV Standards for the Studio and for International Programme Exchange.
15. ANSI/SCTE 54, Digital Video Service Multiplex and Transport System Standard for Cable Television.
16. ANSI/SCTE 127, Carriage of Vertical Blanking Interval (VBI) Data in North American Digital Television Bitstreams.

3. COMPLIANCE NOTATION

As used in this document, “shall” or “will” denotes a mandatory provision of the standard. “Should” denotes a provision that is recommended but not mandatory. “May” denotes a feature whose presence does not preclude compliance that may or may not be present at the option of the implementer.