INTERNATIONAL STANDARD

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Video recording – Helical-scan digital video cassette recording format using 12,65 mm magnetic tape and incorporating MPEG-2 compression – Format D-10

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CONTENTS

FOREWORD 5
1 Scope 6
2 Normative references 6
3 Abbreviations and acronyms 7
4 Environment and test conditions 7
4.1 Calibration tape 7
4.2 Record locations and dimensions 7
5 Tape and cassette physical specifications 7
5.1 Magnetic tape specifications 7
5.2 Cassette specifications 8
6 Tape record physical parameters 28
6.1 Tape speed 28
6.2 Helical record physical parameters 28
6.3 Longitudinal record physical parameters 28
7 Longitudinal track signal and magnetic parameters 31
7.1 Longitudinal track record parameters 31
7.2 Control track record parameters 32
7.3 Time and control code record parameters 32
8 Helical track signal parameters and magnetization 34
8.1 General 34
8.2 Helical track data parameters 35
8.3 Scrambling and channel coding 47
8.4 Magnetization 48
8.5 Data arrangement in video sectors 49
8.6 Data arrangement in audio data sectors 63
Annex A (normative) Video shuffling tables 69
Annex B (normative) Digital interfaces 89
B.1 Introduction 89
B.2 Video interface 89
B.3 Audio interface 89
B.4 Serial data interface 90
Annex C (informative) Tape transport and scanner 91
Annex D (informative) Compatibility with the other digital formats using type-L derivative cassettes 94
Annex E (informative) Compatibility with analog Type-L 95
Annex F (normative) SMPTE 356M, “D-10 Type Stream Specifications: MPEG-2 4:2:2P@ML for 525/60 and 625/50” 96
F.1 Scope 96
F.2 Specification of the D-10 type MPEG-2 4:2:2P@ML elementary stream 96
F.3 Interfaces 98
F.4 D-10 type ES Stream operating points 98
F.5 D-10 recording format compression model 99
F.6 D-10 recording format digital interfaces 100
Annex G (informative) D-10 document reference tree 101

Figure 1 – Top and side view (S-cassette)....10
Figure 2 – Bottom view (S-cassette)....11
Figure 3 – Datum areas, supporting areas, tape guides and associated dimensions (S-cassette)....13
Figure 4 – Reel location in the unlocked position (S-cassette)....13
Figure 5 – Protecting lid dimensions (S-cassette)....14
Figure 6 – Reel dimensions (S-cassette)....15
Figure 7 – Reel height in the unlocked position (S-cassette)....15
Figure 8 – Unlocking lever insertion area (S-cassette)....16
Figure 9 – Lid unlocking force (S-cassette)....17
Figure 10 – Lid opening force (S-cassette)....17
Figure 11 – Reelspring force (S-cassette)....18
Figure 12 – Safety plug strength (S-cassette)....18
Figure 13 – Extraction force (F1, F2) and friction torque (S-cassette)....19
Figure 14 – Top and side view (L-cassette)....19
Figure 15 – Bottom view (L-cassette)....20
Figure 16 – Datum areas, supporting areas and tape guides (L-cassette)....22
Figure 17 – Reel location in unlocked position (L-cassette)....22
Figure 18 – Protecting lid (L-cassette)....23
Figure 19 – Reel dimensions (L-cassette)....24
Figure 20 – Reel height in unlocked operation (L-cassette)....24
Figure 21 – Unlocking lever insertion area (L-cassette)....25
Figure 22 – Lid unlocking force (L-cassette)....26
Figure 23 – Lid opening force (L-cassette)....26
Figure 24 – Reel spring force (L- cassette)....26
Figure 25 – Safety plug strength (L-cassette)....27
Figure 26 – Extraction force (F1, F2) and friction torque (L-cassette)....27
Figure 27 – Locations and dimensions of recorded tracks....30
Figure 28 – Locations and dimensions of tolerance zones of helical track records....31
Figure 29 – Recorded control code waveform for the 525/60 system....33
Figure 30 – Recorded control code waveform for the 625/50 system....33
Figure 31 – Helical recording block diagram....34
Figure 32 – Helical playback block diagram....35
Figure 33 – Sector arrangement on a helical track....36
Figure 34 – Sector arrangement on a helical track (525/60 system)....37
Figure 35 – Sector arrangement on a helical track (625/50 system)....38
Figure 36 – Video sync block format....39
Figure 37 – Audio sync block format (525/60 system)....39
Figure 38 – Audio sync block format (625/50 system)....39
Figure 39 – Sync block identification bytes....40
Figure 40 – ID_0: sync block number (525/60 system)....41
Figure 41 – ID0: sync block number (625/50 system)....42
Figure 42 – Track, segment and frame/field counts....45

Figure 43 – Re-ordering of coefficient data....50
Figure 44 – Length information for video data....53
Figure 45 – Example of packing 10 slices into 10 sync blocks....55
Figure 46 – Video AUX sync block....57
Figure 47 – Block interleave (525/60 system)....58
Figure 48 – Block interleave (625/50 system)....58
Figure 49 – Video outer ECC (525/60 system)....60
Figure 50 – Video outer ECC (625/50 system)....62
Figure 51 – Audio video timing....63
Figure 52 – Audio data word assignment....64
Figure 53 – Audio auxiliary data words....65
Figure 54 – Audio data block layout (525/60 system)....66
Figure 55 – Audio data block layout (625/50 system)....67
Figure 56 – Sync block shuffling....67
Figure 57 – Channel sector shuffling....68
Figure C.1 – Possible scanner configuration (525/60 and 625/50 systems)....92
Figure C.2 – Possible longitudinal head location and tape wrap (525/60 and 625/50 systems)....93
Figure F.3 – Digital recorder compression model....99
Figure G.1 – D-10 document reference tree....101

Table 1 – Record location and dimensions for the 525/60 and 625/50 systems....29
Table 2 – ID_0: sync block number....43
Table A.1 – Shuffling pattern (525/60 system)....69
Table A.2 – Shuffling pattern (625/50 system)....78
Table C.1 – Parameters for a possible scanner design....91
Table C.2 – Data rate and wavelength....91
Table F.1 – Basic bit stream constraints....96
Table F.2 – Operating points....99

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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VIDEO RECORDING – HELICAL-SCAN DIGITAL VIDEO CASSETTE RECORDING FORMAT USING 12,65 MM MAGNETIC TAPE AND INCORPORATING MPEG-2 COMPRESSION – FORMAT D-10

FOREWORD

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International Standard IEC 62289 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this standard is based on the following documents:

CDV	Report on voting
100/416A/CDV	100/481/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

VIDEO RECORDING – HELICAL-SCAN DIGITAL VIDEO CASSETTE RECORDING FORMAT USING 12,65 MM MAGNETIC TAPE AND INCORPORATING MPEG-2 COMPRESSION – FORMAT D-10

1 Scope

This standard specifies the formatting for the recording of data blocks containing MPEG-2 compressed video, multiple channels of AES3 audio and associated data which form helical records on 12,65 mm tape in cassettes. This standard also defines the helical track record parameters, the content and format of the longitudinal records and the cassette physical specifications.

The compressed video uses the MPEG-2 compression which is defined by ISO/IEC 13818-2 with constraints as defined by Annex F. The compressed video channel supports frame frequencies of 30/1,001 Hz (hereafter referred to as 525/60 system) and 25 Hz (hereafter referred to as 625/50 system).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61213:1993, *Analogue audio recording on video tape – Polarity of magnetization*

IEC 61237-1:1994, *Broadcast video tape recorders – Methods of measurement – Part 1: Mechanical measurements*

ISO/IEC 13818-2:2001, *Information technology – Generic coding of moving pictures and associated audio information: Video*

ITU-R BT.601-5, *Studio encoding parameters of digital television for standard 4:3 and wide-screen 16:9 aspect ratios*

SMPTE 12M:1999, *Time and Control Code*

SMPTE 259M:1997, *10-Bit 4:2:2 Component and 4 f_{sc} NTSC Composite Digital Signals – Serial Digital Interface*

SMPTE 305M, *Television - Serial Data Transport Interface*

SMPTE 326M, *SDTI Content Package Format (SDTI-CP)*

SMPTE 328M, *MPEG-2 Video Elementary Stream Editing Information*

SMPTE 331M, *Element and Metadata Definitions for the SDTI-CP*

SMPTE RP 204, *SDTI-CP MPEG Decoder Templates*

AES3-1992, *Serial transmission format for two-channel linearly represented digital audio data*