

INTERNATIONAL STANDARD

IEC 62289

First edition
2002-07

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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International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE

XD

For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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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- withdrawn;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*