

INTERNATIONAL STANDARD

IEC 62356-2

First edition
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**Video recording –
12,65 mm type D-11 format –**

**Part 2:
Picture compression and data stream**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

VIDEO RECORDING – 12,65 MM TYPE D-11 FORMAT –

Part 2: Picture compression and data stream

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International Standard IEC 62356-2 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

It was submitted to the national committees for voting under the Fast Track Procedure as the following documents:

CDV	Report on voting
100/630/CDV	100/700/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 2.

The committee has decided that the contents of this publication will remain unchanged until 2008-11. At this date, the publication will be

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- withdrawn;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

VIDEO RECORDING – 12,65 MM TYPE D-11 FORMAT –

Part 2: Picture compression and data stream

1 Scope

This International Standard specifies the compression of a high-definition source format to a dual-channel packetized data stream format which is suitable for recording on disc and tape storage devices including the Type D-11 tape recorder. The specification includes a number of basic packetizing operations including the shuffling of the source data prior to compression, both to aid compression performance and to allow error concealment processing in the decoder. The standard also includes the processes required to decode the compressed Type D-11 packetized data format into a high-definition output signal.

This standard supports high-definition source formats using $1\,920 \times 1\,080$ pixels and the sampling structures as specified in SMPTE 274M and RP 211 at the following picture rates:

- 24/1,001/PsF;
- 24/PsF;
- 25/PsF;
- 30/1,001/PsF;
- 50/I;
- 60/1,001/I

where 'PsF' indicates Progressive segmented Frame and 'I' indicates Interlaced.

The data packet format specified by this standard is used as the source data stream for the associated document which maps this Type D-11 packetized data-stream format together with AES3 data over SDTI.

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.

SMPTE 292M:1998, *Television – Bit-Serial Digital Interface for High-Definition Television Systems*

SMPTE 274M:1998, *Television – 1920 × 1080 Scanning and Analog and Parallel Digital Interfaces for Multiple Picture Rates*

SMPTE RP 211:2000, *Implementation of 24P, 25P and 30P Segmented Frames for 1920 × 1080 Production Format*

SMPTE 12M:1999, *Television, Audio and Film-Time and Control Code*

SMPTE RP 188:1999, *Transmission of Time Code and Control Code in the Ancillary Data Space of a Digital Television Data Stream*