

# INTERNATIONAL STANDARD

**IEC**  
**61883-3**

Second edition  
2004-08

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**Consumer audio/video equipment –  
Digital interface –**

**Part 3:  
HD-DVCR data transmission**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONSUMER AUDIO/VIDEO EQUIPMENT –  
DIGITAL INTERFACE –****Part 3: HD-DVCR data transmission**

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International Standard IEC 61883-3 has been prepared by technical area 4: Digital system interfaces and protocols, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This second edition of IEC 61883-3 cancels and replaces the first edition published in 1998. This edition contains the following significant technical changes with respect to the previous edition:

Added specifications of IEEE 1394 packet, CIP header and transmission timing in high speed transmission.

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

CDV	Report on voting
100/728/CDV	100/817/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.

IEC 61883 consists of the following parts under the general title *Consumer audio/video equipment – Digital interface*:

Part 1: General

Part 2: SD-DVCR data transmission

Part 3: HD-DVCR data transmission

Part 4: MPEG2-TS data transmission

Part 5: SDL-DVCR data transmission

Part 6: Audio and music data transmission protocol

Part 7: Transmission of ITU-R BO.1294 System B

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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# CONSUMER AUDIO/VIDEO EQUIPMENT – DIGITAL INTERFACE –

## Part 3: HD-DVCR data transmission

### 1 Scope

This part of IEC 61883 specifies the packet format and the transmission timing for HD-DVCR data. It describes the specifications for the IEEE 1394 packet, the CIP header for 1125-60 and 1250-50 television systems, and the transmission timing.

### 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 61834-3, *Recording – Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems) – Part 3: HD format for 1125-60 and 1250-50 systems*

IEC 61883-1, *Consumer audio/video equipment – Digital interface – Part 1: General*

IEC 61883-2, *Consumer audio/video equipment – Digital interface – Part 2: SD-DVCR data transmission*

### 3 Abbreviations

[IEC 61883-3:2004](https://standards.iteh.ai/catalog/standards/iec/a3b80c1e-7457-4b1b-8a13-958a5c4ff2a3/iec-61883-3-2004)

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For the purpose of this document, the following abbreviations apply:

- 1125-60 system: the 1125-line system with a frame frequency of 30,00 Hz
- 1250-50 system: the 1250-line system with a frame frequency of 25,00 Hz
- HD-DVCR: high-definition digital video cassette recorder
- IEEE 1394 packet: IEEE 1394 isochronous packet defined in IEC 61883-1

### 4 Construction of IEEE 1394 packet

#### 4.1 Source packet structure of the HD-DVCR data stream

For the HD-DVCR data stream, the data structure for digital interface defined in IEC 61834-3, Clause 10 is used. The source packet size for the HD-DVCR data stream is 960 bytes, divided into 12 DIF blocks.

The correspondence between DIF blocks and source packets for the 1125-60 system and the 1250-50 system are shown in Figure 1 and Figure 2 respectively.