

Consumer audio/video equipment — Digital interface —

Part 2: SD-DVCR data transmission

The European Standard EN 61883-2:2005 has the status of a British Standard

ICS 35.200; 33.160.01

National foreword

This British Standard is the official English language version of EN 61883-2:2005. It is identical with IEC 61883-2:2004. It supersedes BS EN 61883-2:1998 which will be withdrawn on 1 November 2008.

The UK participation in its preparation was entrusted to Technical Committee EPL/100, Audio, video and multimedia systems and equipment, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 11 and a back cover.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 24 January 2006

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ISBN 0 580 47520 4

Amendments issued since publication

Amd. No.	Date	Comments

EUROPEAN STANDARD

EN 61883-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 35.200; 33.160.01

Supersedes EN 61883-2:1998

English version

**Consumer audio/video equipment -
Digital interface
Part 2: SD-DVCR data transmission
(IEC 61883-2:2004)**

Matériel audio/vidéo grand public -
Interface numérique
Partie 2: Transmission de données
SD-DVCR
(CEI 61883-2:2004)

Audio/Video-Geräte der
Unterhaltungselektronik -
Digitale Schnittstelle
Teil 2: SD-DVCR-Datenübertragung
(IEC 61883-2:2004)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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Ref. No. EN 61883-2:2005 E



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Foreword

The text of the International Standard IEC 61883-2:2004, prepared by technical area 4, Digital system interfaces and protocols, of IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the formal vote and was approved by CENELEC as EN 61883-2 on 2005-11-01.

This European Standard supersedes EN 61883-2:1998.

It contains the following significant technical changes with respect to EN 61883-2:1998:

- a) added STYPE for SMPTE Type D-7 50Mbit/s system and SMPTE Type D-12 100Mbit/s system;
- b) added specifications of IEEE 1394 packet, CIP header and transmission timing in high speed transmission.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2006-11-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2008-11-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61883-2:2004 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61834-1	NOTE	Harmonized as EN 61834-1:1998 (not modified).
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CONSUMER AUDIO/VIDEO EQUIPMENT – DIGITAL INTERFACE –

Part 2: SD-DVCR data transmission

1 Scope

This part of IEC 61883 specifies the packet format and the transmission timing for SD-DVCR data. It describes the specifications for the IEEE 1394 packet, the CIP header for 525-60 and 625-50 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 61834-2, *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 2: SD format for 525-60 and 625-50 systems*

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

3 Abbreviations

For the purposes of this document, the following abbreviations apply.

525-60 system:	the 525-line system with a frame frequency of 29,97 Hz
625-50 system:	the 625-line system with a frame frequency of 25,00 Hz
IEEE 1394 packet:	IEEE 1394 isochronous packet defined in IEC 61883-1
SD-DVCR:	standard definition digital video cassette recorder

4 Construction of IEEE 1394 packet

4.1 Source packet structure of the SD-DVCR data stream

For the SD-DVCR data stream, the data structure for digital interface defined in IEC 61834-2, Clause 11 is used. The source packet size for SD-DVCR data stream is 480 bytes, divided into 6 DIF blocks.

The correspondence between DIF blocks and source packets for the 525-60 system and the 625-50 system are shown in Figure 1 and Figure 2 respectively.

4.2 Packetization of source packet of the SD-DVCR data stream

A source packet shall not be divided and shall be equal to a data block.

Data blocks transmitted in an IEEE 1394 isochronous cycle shall be determined according to the TR value in the CIP header (see 5.2). An empty packet is placed in any cycle with no data block: