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Consumer audio/video equipment - Digital interface - Part 7: Transmission of ITU-R  
BO.1294 System B (IEC 61883-7:2003)

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EUROPEAN STANDARD

**EN 61883-7**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2003

ICS 33.160.01; 35.200

English version

**Consumer audio/video equipment –  
Digital interface  
Part 7: Transmission of ITU-R BO.1294 System B  
(IEC 61883-7:2003)**

Matériel audio/vidéo grand public -  
Interface numérique  
Partie 7: Transmission du Système B  
de l'UIT-R BO.1294  
(CEI 61883-7:2003)

Audio/Video-Geräte der  
Unterhaltungselektronik –  
Digitale Schnittstelle  
Teil 7: Übertragung nach  
Rec. ITU-R BO.1294 System B  
(IEC 61883-7:2003)

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This European Standard was approved by CENELEC on 2003-03-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 100/558/FDIS, future edition 1 of IEC 61883-7, prepared by technical area 4, Digital system interfaces, of IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61883-7 on 2003-03-01.

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) 2003-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-03-01

Annexes designated "normative" are part of the body of the standard.  
In this standard, annexes A and ZA are normative.  
Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61883-7:2003 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

SIST-EN 61883-7:2003

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**Annex ZA**  
(normative)

**Normative references to international publications  
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61883-1	- 1)	Consumer audio/video equipment - Digital interface Part 1: General	EN 61883-1	2003 2)
ITU-R BO 1294	1997	Common functional requirements for the reception of digital multi-programme television emissions by satellites operating in the 11/12 GHz frequency range	-	-
IEEE Std 1394	1995	Standard for a High Performance Serial Bus	-	-
IEEE Std 1394A	2000	Standard for a High Performance Serial Bus - Amendment 1	-	-

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1) Undated reference.

2) Valid edition at date of issue.

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# INTERNATIONAL STANDARD

# IEC 61883-7

First edition  
2003-01

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## Consumer audio/video equipment – Digital interface –

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

## iTeh STANDARD PREVIEW

*Matériel audio/vidéo grand public –  
Interface numérique –*

SIST EN 61883-7:2003

<https://www.iteh.ai/catalog/standards/sist/658e23b3-72fe-4170-b5da-775b/61883-7-2003>

*Partie 7:  
Transmission du Système B de l'UIT-R BO.1294*

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International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE

**N**

*For price, see current catalogue*

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONSUMER AUDIO/VIDEO EQUIPMENT –  
DIGITAL INTERFACE –****Part 7: Transmission of ITU-R BO.1294 System B**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

IEC 61883-7 has been prepared by technical area 4, Digital system interfaces, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

FDIS	Report on voting
100/558/FDIS	100/610/RVD

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.

International Standard 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 2004. At this date, the publication will be

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

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SIST EN 61883-7:2003

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# CONSUMER AUDIO/VIDEO EQUIPMENT – DIGITAL INTERFACE –

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

### 1 Scope

This specification defines packetization and transmission for transport streams of ITU-R BO.1294 system B (DirecTV system/DSS) over the IEEE 1394 Serial Bus.

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

ITU-R BO.1294:1997, *Common functional requirements for the reception of digital multi-programme television emissions by satellites operating in the 11/12 GHz frequency range*<sup>1</sup>

IEEE 1394:1995, *Standard for a High Performance Serial Bus*

IEEE 1394a:2000, *Standard for a High Performance Serial Bus – Amendment 1*  
SIST EN 61883-7:2003  
<https://standards.iteh.ai/catalog/standards/sist/658e23b3-72fe-4170-b5da-5e5a8ac27633/sist-en-61883-7-2003>

### 3 Terms, definitions and abbreviations

For the purposes of this part of IEC 61883, the following terms and definitions apply.

#### 3.1 Terms and definitions

For the purposes of this part of IEC 61883, the following terms and definitions apply.

##### 3.1.1

##### **byte**

eight bits of data, used as a synonym for octet

NOTE The symbol for byte is B.

##### 3.1.2

##### **CSR architecture**

convenient abbreviation of the following reference: ISO/IEC 13213:1994, *Information technology – Microprocessor systems – Control and status register (CSR) architecture for microcomputer buses*

##### 3.1.3

##### **quadlet**

four bytes of data

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<sup>1</sup> In this document, the name “DSS” is used instead of ITU-R BO.1294 system B.