SLOVENSKI STANDARD
SIST EN 61937-1:2007/A1:2012

01-julij-2012

Digitalni avdio-vmesnik za nelinearne PCM-kodirane avdio bitne tokove po IEC 60958 - 1. del: Splošno (IEC 61937-1:2007/A1:2011)

Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 1: General (IEC 61937-1:2007/A1:2011)

Digitalton - Schnittstelle für nichtlinear-PCM-codierte Audio-Bitströme unter Verwendung von IEC 60958 - Teil 1: Allgemeines (IEC 61937-1:2007/A1:2011)

Audionumérique - Interface pour les flux de bits audio à codage MIC non linéaire conformément à la CEI 60958 - Partie 1: Généralités (CEI 61937-1:2007/A1:2011)

Ta slovenski standard je istoveten z: **EN 61937-1:2007/A1:2011**

ICS:

33.160.30	Avdio sistemi	Audio systems
35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment

SIST EN 61937-1:2007/A1:2012 **en,fr**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61937-1/A1

November 2011

ICS 33.160.30

English version

Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 1: General

(IEC 61937-1:2007/A1:2011)

Audionumérique -
Interface pour les flux de bits audio à codage MIC non linéaire conformément à la CEI 60958 -
Partie 1: Généralités
(CEI 61937-1:2007/A1:2011)

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Teil 1: Allgemeines
(IEC 61937-1:2007/A1:2011)

This amendment A1 modifies the European Standard EN 61937-1:2007; it was approved by CENELEC on 2011-11-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 61937-1:2007/A1:2011 E

Foreword

The text of document 100/1810/CDV, future edition 2 of IEC 61937-1:2007/A1, 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 IEC-CENELEC parallel vote and approved by CENELEC as EN 61937-1:2007/A1:2011.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2012-08-16
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2014-11-16

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Endorsement notice

The text of the International Standard IEC 61937-1:2007/A1:2011 was approved by CENELEC as a European Standard without any modification.

IEC 61937-1

Edition 2.0 2011-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
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Part 1: General

Audionumérique – Interface pour les flux de bits audio à codage MIC non linéaire conformément à la CEI 60958 –
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE
CODE PRIX D

ICS 33.160.30

ISBN 978-2-88912-692-7

FOREWORD

This amendment has been prepared by technical area 4: Digital system interfaces and protocols, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

CDV	Report on voting
100/1810/CDV	100/1883/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability 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

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

INTRODUCTION to Amendment 1

The revision of IEC 61937-1 (2007) has become necessary to specify the additional definition of length-code. Amendment 1 contains the following significant technical changes with respect to the base publication (IEC 61937-1, second edition).

– New 8-bytes unit definition of length-code is added.

– An erratum in Clause 7 as for indication of the burst-payload type is corrected.

3.1 Definitions

Replace, in 3.1.12, the existing definition by the following:

3.1.12
length-code
code indicating the length of the data-burst-payload in bits, bytes or 8-bytes unit

6.1.6 Burst-preamble

Replace the entire existing first paragraph by the following:

The burst-preamble consists of four mandatory fields. Pa and Pb represent a synchronization word. Pc gives information about the type of data, and some information/control for the receiver. Pd gives the length of the burst-payload, limited to 65 535 bits in the case of Pd represent bits length, limited to 65 535 bytes in the case of Pd represent bytes length or limited to 524 280 bytes in the case of Pd represent 8-bytes unit length.

Replace the entire existing Table 3 by the following new Table 3:

Table 3 – Burst-preamble words

Preamble word	Length of field	Contents	Value MSB..LSB
Pa	16-bit	Sync word 1	F872h
Pb	16-bit	Sync word 2	4E1Fh
Pc	16-bit	Burst-info	Table 5
Pd	16-bit	Length-code	Number of bits, number of bytes or number of 8-bytes unit according to data-type

6.1.7.2 Extended data-type

Replace the entire existing Table 6 by the following new Table 6:

Table 6 – Burst-preamble words

Preamble word	Length of field	Contents	Value MSB..LSB
Pa	16-bit	Sync word 1	F872h
Pb	16-bit	Sync word 2	4E1Fh
Pc	16-bit	Burst-info	Table 5
Pd	16-bit	Length-code	Number of bits, number of bytes or number of 8-bytes unit according to data-type
Pe (conditional)	16-bit	Extended data-type	Table 7
Pf (conditional)	16-bit	Reserved for future use	Table 8

6.1.8 Length-code

Replace the entire existing first paragraph above Figure 5 by the following:

The length-code indicates the number of bits, bytes or 8-bytes unit according to data-type within the data-burst, from 0 to 65 535. The size of the Pa, Pb, Pc and Pd is not counted in the value of the length-code. In other words, the length-code indicates the number of bits of the burst-payload in bits, plus the conditional length of Pe and Pf (see Figure 4), or the number of bytes of the burst-payload in bytes, plus the conditional length of Pe and Pf if it exists, or the number of 8-bytes unit of the burst-payload in bytes, plus the conditional length of Pe and Pf if it exists.

7 Format of data-bursts

Replace the first existing paragraph by the following:

Data-types are categorized into three classes: audio data-burst, pause data-burst and null data-burst. The type of the burst-payload is indicated by bits 0 to 4 fields of Pc. Repetition periods apply to all data-types except for the null data-type.

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