



# SLOVENSKI STANDARD

## SIST EN 61937-7:2006

01-januar-2006

Nadomešča:  
SIST EN 61937-7:2003

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**Digitalni avdio – Vmesnik za nelinearne PCM-kodirane avdio bitne tokove po IEC 60958 – 7. del: Nelinearni PCM-bitni tokovi v formatih ATRAC, ATRAC2/3 in ATRAC-X (IEC 61937-7:2004)**

Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 -- Part 7: Non-linear PCM bitstreams according to the ATRAC, ATRAC2/3 and ATRAC-X formats

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Digitalton - Schnittstelle für nichtlinear-PCM-codierte Audio-Bitströme unter Verwendung von IEC 60958 -- Teil 7: Nichtlineare PCM-Bitströme entsprechend ATRAC-, ATRAC2/3- und ATRAC-X-Formaten

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Audionumérique - Interface pour les flux de bits audio à codage MIC (PCM) non linéaire conformément à la CEI 60958 -- Partie 7: Flux de bits MIC (PCM) non-linéaire selon les formats ATRAC, 2/3 ATRAC et X-ATRAC

**Ta slovenski standard je istoveten z: EN 61937-7:2005**

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**ICS:**

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

**SIST EN 61937-7:2006**

**en**

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EUROPEAN STANDARD

**EN 61937-7**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2005

ICS 33.160.01

Supersedes EN 61937-7:2002

English version

**Digital audio -  
Interface for non-linear PCM encoded audio bitstreams  
applying IEC 60958  
Part 7: Non-linear PCM bitstreams according to  
the ATRAC, ATRAC2/3 and ATRAC-X formats  
(IEC 61937-7:2004)**

Audionumérique -  
Interface pour les flux de bits audio  
à codage MIC (PCM) non linéaire  
conformément à la CEI 60958  
Partie 7 : Flux de bits MIC (PCM)  
non-linéaire selon les formats  
ATRAC, 2/3 ATRAC et X-ATRAC  
(CEI 61937-7:2004)

Digitalton -  
Schnittstelle für nichtlinear-PCM-codierte  
Audio-Bitströme unter Verwendung  
von IEC 60958  
Teil 7: Nichtlineare PCM-Bitströme  
entsprechend ATRAC-, ATRAC2/3-  
und ATRAC-X-Formaten  
(IEC 61937-7:2004)

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This European Standard was approved by CENELEC on 2005-07-01. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 the International Standard IEC 61937-7:2004, prepared by Technical Area 4, Digital 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 61937-7 on 2005-07-01 without any modification.

This European Standard supersedes EN 61937-7:2002.

It includes the following significant technical changes with respect to EN 61937-7:2002:

- a) a new audio data-type "ATRAC-X" is added to ATRAC and ATRAC2/3;
- b) specific properties such as reference points, repetition period, the method of filling stream gaps, and decoding latency are specified for the data-type ATRAC-X.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| <ul style="list-style-type: none"> <li>– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement</li> </ul> | (dop) | 2006-07-01 |
| <ul style="list-style-type: none"> <li>– latest date by which the national standards conflicting with the EN have to be withdrawn</li> </ul>   | (dow) | 2008-07-01 |

Annex ZA has been added by CENELEC.

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### (Endorsement notice)

The text of the International Standard IEC 61937-7:2005 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 61909	NOTE	Harmonized as EN 61909:2000 (not modified).
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## Annex ZA (normative)

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

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.

NOTE Where 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 60958-1	- <sup>1)</sup>	Digital audio interface Part 1: General	EN 60958-1	2004 <sup>2)</sup>
IEC 60958-3	- <sup>1)</sup>	Part 3: Consumer applications	EN 60958-3	2003 <sup>2)</sup>
IEC 61937-1	- <sup>1)</sup>	Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 Part 1: General	EN 61937-1	2003 <sup>2)</sup>
IEC 61937-2	- <sup>1)</sup>	Part 2: Burst-info	EN 61937-2	2003 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

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# INTERNATIONAL STANDARD

# IEC 61937-7

Second edition  
2004-11

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## Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 –

### Part 7:

### Non-linear PCM bitstreams according to the ATRAC, ATRAC2/3 and ATRAC-X formats

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International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland  
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: [inmail@iec.ch](mailto:inmail@iec.ch) Web: [www.iec.ch](http://www.iec.ch)



Commission Electrotechnique Internationale  
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Международная Электротехническая Комиссия

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*For price, see current catalogue*

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**DIGITAL AUDIO –  
INTERFACE FOR NON-LINEAR PCM ENCODED  
AUDIO BITSTREAMS APPLYING IEC 60958 –**
**Part 7: Non-linear PCM bitstreams according to  
the ATRAC, ATRAC2/3 and ATRAC-X formats**

## FOREWORD

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International Standard IEC 61937-7 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 cancels and replaces the first edition published in 2002. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) In this edition, a new audio data-type of ATRAC-X is added to ATRAC and ATRAC2/3.
- b) Specific properties such as reference points, repetition period, the method of filling stream gaps, and decoding latency are specified for data-type of ATRAC-X.