

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)**

ICS 33.160.01

National foreword

This British Standard is the UK implementation of EN 61937-7:2005+A1:2016. It is identical to IEC 61937-7:2004, incorporating amendment 1:2016. It supersedes BS EN 61937-7:2005 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee EPL/100, Audio, video and multimedia systems and equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Amendments/corrigenda issued since publication

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 25 January 2006

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Date	Comments
31 October 2016	Implementation of IEC amendment 1:2016 with CENELEC endorsement A1:2016

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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)

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:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2006-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2008-07-01

Annex ZA has been added by CENELEC.

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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Foreword to amendment A1

The text of document 100/2503/CDV, future IEC 61937-7:2005/A1, prepared by IEC/TC 100, "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61937-7:2005/A1:2016.

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) 2017-03-17
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-06-17

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61937-7:2005/A1:2016 was approved by CENELEC as a European Standard without any modification.

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

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.