

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

**Part 6: Non-linear PCM bitstreams
according to the MPEG-2 AAC and
MPEG-4 AAC formats**

ICS 33.160.60; 35.040

National foreword

This British Standard is the UK implementation of EN 61937-6:2006+A1:2014. It is identical to IEC 61937-6:2006, incorporating amendment 1:2014. It supersedes BS EN 61937-6:2006, which is withdrawn.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 A1 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.

The 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.

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30 June 2014	Implementation of IEC amendment 1:2014 with CENELEC endorsement A1:2014. Annex ZA updated

**Digital audio –
Interface for non-linear PCM encoded audio bitstreams
applying IEC 60958
Part 6: Non-linear PCM bitstreams according to the MPEG-2 AAC
and MPEG-4 AAC formats
(IEC 61937-6:2006)**

Audionumérique –
Interface pour les flux de bits audio
à codage MIC non linéaire,
conformément à la CEI 60958
Partie 6: Flux de bits MIC non linéaire
selon les formats MPEG-2 AAC
et MPEG-4 AAC
(CEI 61937-6:2006)

Digitalton –
Schnittstelle für nichtlinear-PCM-codierte
Audio-Bitströme unter Verwendung
von IEC 60958
Teil 6: Nichtlineare PCM-Bitströme
nach MPEG-2 AAC- und MPEG-4 AAC-
Audio-Formaten
(IEC 61937-6:2006)

This European Standard was approved by CENELEC on 2006-07-01. 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.

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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 61937-6:2006, prepared by IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the formal vote and was approved by CENELEC as EN 61937-6 on 2006-07-01 without any modification.

This European Standard supersedes EN 61937-6:2002.

It includes the following significant technical changes with respect to EN 61937-6:2002:

- a) addition of data-type for MPEG2 AAC low sampling frequency;
- b) additon of data-type for MPEG-4 AAC.

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) 2007-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-07-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61937-6:2006 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document 100/2052/CDV, future IEC 61937-6:2006/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 61937-6:2006/A1:2014.

The following dates are fixed:

- latest date by which the document has to be (dop) 2014-12-05
implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2017-03-05
standards conflicting with the
document have to be withdrawn

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The text of the International Standard IEC 61937-6:2006/A1:2014 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 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 60958	Series	Digital audio interface	EN 60958	Series
IEC 61937	Series	Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958	EN 61937	Series
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⁾	Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 Part 2: Burst-info	EN 61937-2	2003 ²⁾
ISO/IEC 13818-7	-	Information technology - Generic coding of moving pictures and associated audio information - Part 7: Advanced Audio Coding (AAC)	-	-
ISO/IEC 14496-3	-	Information technology - Coding of audio-visual objects - Part 3: Audio	-	-
ISO/IEC 23003-1	-	Information technology - MPEG audio technologies - Part 1: MPEG Surround	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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DIGITAL AUDIO – INTERFACE FOR NON-LINEAR PCM ENCODED AUDIO BITSTREAMS APPLYING IEC 60958 –

Part 6: Non-linear PCM bitstreams according to the MPEG-2 AAC and MPEG-4 AAC formats

1 Scope

This part of IEC 61937 specifies the method for IEC 60958 to convey non-linear PCM bitstreams encoded in accordance with the MPEG-2 AAC (Advanced Audio Coding) and MPEG-4 AAC formats.

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 60958 (all parts), *Digital audio interface*

IEC 61937 (all parts), *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958*

IEC 61937-1, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 1: General*

IEC 61937-2, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 2: Burst-info*

 ISO/IEC 13818-7, *Information technology – Generic coding of moving pictures and associated audio information – Part 7: Advanced Audio Coding (AAC)*

ISO/IEC 14496-3, *Information technology – Coding of audio-visual objects – Part 3: Audio*

ISO/IEC 23003-1, *Information technology – MPEG audio technologies – Part 1: MPEG Surround* 

3 Terms, definitions, abbreviations and presentation convention

For the purposes of this document, the following terms, definitions, abbreviations and presentation convention apply.

3.1 Terms and definitions

3.1.1

subdata-type

reference to the type of payload of the data-burst defined for use with the specified data-type

3.1.2

MPEG-2 AAC LC profile

MPEG-2 AAC low complexity profile identified in ISO/IEC 13818-7

3.1.3

MPEG-2 AAC LC profile with SBR

MPEG-2 AAC low complexity profile with spectral band replication identified in ISO/IEC 13818-7 