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INTERNATIONAL STANDARD

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

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

Part 1: General

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IEC 61937-1 has been prepared by technical area 20: Analogue and digital audio, of IEC technical committee 100: Audio, video and multimedia systems and equipment. It is an International Standard.

This third edition cancels and replaces the second edition published in 2007, and amendment 1 published in 2011. This edition constitutes a technical revision.

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

a) Activation of Pe field;

b) Enhanced usage of channel status bits.

c) Addition of Annex B.

The text of this International Standard is based on the following documents:

Draft	Report on voting
100/3447/CDV	100/3522/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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~~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.~~

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

Part 1: General

1 Scope

This part of IEC 61937 applies to the digital audio interface using the IEC 60958 series for the conveying of non-linear PCM encoded audio bitstreams.

It describes the way in which this digital interface can be used in consumer applications.

The professional mode ~~(AES/EBU)~~ is not considered within the scope of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60958-1, *Digital audio interface – Part 1: General*

IEC 60958-3, *Digital audio interface – Part 3: Consumer applications*

IEC 60958-5, *Digital audio interface – Part 5: Consumer application enhancement*

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

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

IEC 61937-1

Edition 3.0 2021-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

Audionumérique – Interface pour les flux de bits audio à codage MIC non linéaire selon l'IEC 60958 – Partie 1: Généralités

IEC 61937-1:2021-02(en-fr)

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IEC 60958-3, *Digital audio interface – Part 3: Consumer applications*

IEC 60958-5, *Digital audio interface – Part 5: Consumer application enhancement*

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

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AUDIONUMÉRIQUE – INTERFACE POUR LES FLUX DE BITS AUDIO À CODAGE MIC NON LINÉAIRE SELON L'IEC 60958 –

Partie 1: Généralités

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Cette troisième édition annule et remplace la deuxième édition parue en 2007 et l'Amendement 1:2011. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

a) activation du champ Pe;

b) utilisation élargie de la voie de signalisation;

c) ajout de l'Annexe B.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
100/3447/CDV	100/3522/RVC

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cette norme.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/standardsdev/publications.

Une liste de toutes les parties de la série IEC 61937, publiées sous le titre général *Audionumérique – Interface pour les flux de bits audio à codage MIC non linéaire selon l'IEC 60958*, peut être consultée sur le site web de l'IEC.

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AUDIONUMÉRIQUE – INTERFACE POUR LES FLUX DE BITS AUDIO À CODAGE MIC NON LINÉAIRE SELON L'IEC 60958 –

Partie 1: Généralités

1 Domaine d'application

La présente partie de l'IEC 61937 s'applique à l'interface audionumérique conforme à la série IEC 60958 pour l'acheminement des flux de bits audio à codage MIC non linéaire.

Elle décrit comment cette interface numérique peut être utilisée dans les applications grand public.

Le domaine d'application du présent document ne couvre pas le mode professionnel.

2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 60958-1, *Interface audionumérique – Partie 1: Généralités*

IEC 60958-3, *Digital audio interface – Part 3: Consumer applications* (disponible en anglais seulement)

IEC 60958-5, *Interface audionumérique – Partie 5: Amélioration de l'application grand public*

IEC 61937-2, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 2: Burst-info* (disponible en anglais seulement)