

### SLOVENSKI STANDARD SIST EN 61937-5:2003

01-december-2003

Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format(s) (IEC 61937-5:2002)

Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 -- Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format(s)

iTeh STANDARD PREVIEW
Digitalton - Schnittstelle für nichtlinear-PCM-codierte Audio-Bitströme unter Verwendung von IEC 60958 -- Teil 5: Nichtlineare PCM-Bitströme für DTS (Digitale Theatersysteme)-Format(e)

#### SIST EN 61937-5:2003

https://standards.iteh.ai/catalog/standards/sist/c02b8a5c-6eae-4eb2-8515-Audionumérique - Interface pour les flux de bits audio à codage PCM (MIC) non linéaire conformément à la CEI 60958 -- Partie 5: Flux de bits PCM non linéaire conformément aux formats DTS (Systèmes numériques pour salles de spectacle)

Ta slovenski standard je istoveten z: EN 61937-5:2002

#### ICS:

33.160.30 Avdio sistemi Audio systems

35.200 Vmesniška in povezovalna Interface and interconnection

> equipment oprema

**SIST EN 61937-5:2003** en SIST EN 61937-5:2003

### iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 61937-5:2003 https://standards.iteh.ai/catalog/standards/sist/c02b8a5c-6eae-4eb2-8515f866bf346ed1/sist-en-61937-5-2003

EUROPEAN STANDARD

EN 61937-5

NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

November 2002

ICS 33.160.60

**English version** 

### Digital audio -Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format(s)

(IEC 61937-5:2002)

Audionumérique -

Interface pour les flux de bits audio à codage PCM (MIC) non linéaire

conformément à la CEI 60958

Partie 5: Flux de bits PCM non linéaire conformément aux formats DTS and ards. ite DTS (Digitale Theatersysteme)-Format(e)

(Systèmes numériques pour salles de spectacle) Digitalton -

Schnittstelle für nichtlinear-PCM-codierte

Audio-Bitströme

punter Verwendung von IEC 60958

Teil 5: Nichtlineare PCM-Bitströme für

(IEC 61937-5:2002)

SIST EN 61937-5:2003

(CEI 61937-5:2002)s://standards.iteh.ai/catalog/standards/sist/c02b8a5c-6eae-4eb2-8515-

f866bf346ed1/sist-en-61937-5-2003

This European Standard was approved by CENELEC on 2002-10-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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

EN 61937-5:2002

- 2 -

#### **Foreword**

The text of document 100/499/FDIS, future edition 1 of IEC 61937-5, prepared by IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61937-5 on 2002-10-01.

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) 2003-07-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2005-10-01

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

#### **Endorsement notice**

The text of the International Standard IEC 61937-5:2002 was approved by CENELEC as a European Standard without any modification.

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 61937-5:2003</u> https://standards.iteh.ai/catalog/standards/sist/c02b8a5c-6eae-4eb2-8515-f866bf346ed1/sist-en-61937-5-2003

### Annex ZA (normative)

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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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>	EN/HD	<u>Year</u>
IEC 60958-1	1999	Digital audio interface Part 1: General	EN 60958-1	2000
IEC 60958-3	1999	Part 3: Consumer applications	EN 60958-3	2000
IEC 60958-4	1999	Part 4: Professional applications  Charles PREVII  Part 4: Professional applications	EN 60958-4	2000
IEC 61937-1	_ 1)	Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 Part 1: General	<u></u>	-
IEC 61937-2	https://sta	andards iteh ai/catalog/standards/sist/c02b8a5c-6eae-4 Part 2: Burst information f866bf346ed1/sist-en-61937-5-2003	eb <u>2</u> -8515-	-

<sup>1)</sup> At draft stage.

SIST EN 61937-5:2003

### iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 61937-5:2003 https://standards.iteh.ai/catalog/standards/sist/c02b8a5c-6eae-4eb2-8515f866bf346ed1/sist-en-61937-5-2003

# INTERNATIONAL STANDARD

IEC 61937-5

First edition 2002-08

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

Part 5:
Non-linear PCM bitstreams according to
the DTS (Digital Theater Systems) format (s)

<u>SIST EN 61937-5:2003</u> https://standards.iteh.ai/catalog/standards/sist/c02b8a5c-6eae-4eb2-8515f866bf346ed1/sist-en-61937-5-2003

© IEC 2002 — Copyright - all rights reserved

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

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 Web: www.iec.ch



Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия PRICE CODE



### **CONTENTS**

FOI	REW	ORD	3				
1	Scop	De	4				
2		native references					
3		efinitions and abbreviations4					
4		ping of the audio bitstream on to IEC 61937-1					
	4.1	DTS burst-info					
5	Form	Format of DTS data-bursts					
	5.1	General					
	5.2	Pause data-burst	5				
	5.3	Audio data-bursts	5				
		5.3.1 DTS type I	5				
		5.3.2 DTS type II	7				
	_	5.3.3 DTS type III	8				
Bibli	iogra	phy1	0				
Figu	ıra 1	DTS type I Seth Hungitt A NID A DID DD ENVIRONY					
Figu		DTS type I data-burst.T.A.N.D.A.R.D. P.R.E.V.I.E.W	6				
•		Latency of DTS type I decoding	7				
Figu 		DTS type II data-burst	7				
Figu 		Latency of DTS type II decoding 1937-52003	8				
Figu		DTS typet##:data-bursth.ai/catalog/standards/sist/c02b8a5c-6eae-4eb2-8515-	8				
Figu	re 6	Latency of DTS type III decoding	9				
Tabl	<b>~</b> 1	Fields of house to 6					
	- •	Fields of burst-info					
Tabl 		Repetition period of Pause data-bursts					
Tabl		Data-type-dependent when DTS type I					
Tabl	-	Data-type-dependent when DTS type II					
Tabl	e 5	Data-type-dependent when DTS type III	9				

#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

### Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format (s)

#### **FOREWORD**

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees (National Committees)
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

  [866bb346ed1/sist-en-61937-5-2003]
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

This part of International Standard IEC 61937 has been prepared by technical area 4, Digital system interfaces, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

FDIS	Report on voting
100/499/FDIS	100/538/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that this publication remains valid until 2005. At this date, in accordance with the committee's decision, the publication will be

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