BS IEC 61937-2:2007+A2:2018



BSI Standards Publication

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

Part 2: Burst-info

bsi.

National foreword

This British Standard is the UK implementation of IEC 61937-2:2007+A2:2018. It supersedes BS EN 61937-2:2007+A1:2011, which is withdrawn.

This standard has not been adopted by CENELEC as the standard series has been agreed as exempt from parallel procedure. Therefore, BS EN 61937-2:2007+A1:2011 has been withdrawn to allow for the publication of BS IEC 61937-2:2007+A2:2018.

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.

© The British Standards Institution 2019
Published by BSI Standards Limited 2019

ISBN 978 0 580 96019 2

ICS 33.160.30

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

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 October 2007.

Amendments/corrigenda issued since publication

Date	Text affected
31 January 2012	Implementation of IEC amendment 1:2011 with CENELEC endorsement A1:2011
30 June 2019	Implementation of IEC amendment 2:2018. With the implementation of IEC amendment 2, the standard's identifier has been been changed. Please see national foreword for further details.



IEC 61937-2

Edition 2.0 2018-03

INTERNATIONAL STANDARD

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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 33.160.30

ISBN 978-2-8322-5460-8

Warning! Make sure that you obtained this publication from an authorized distributor.

® Registered trademark of the International Electrotechnical Commission

FOREWORD

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

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

CDV	Report on voting
100/2944/CDV	100/3032/RVC

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

_____

INTRODUCTION to Amendment 2

The revision of IEC 61937-2:2007 has become necessary to define additional data types. Amendment 2 contains the following significant technical changes with respect to the base publication (IEC 61937-2:2007 and IEC 61937-2:2007/AMD1:2011):

a) new audio data-types of ATRAC-X low latency, MPEG-H 3D Audio, MPEG-H 3D Audio HBR, AC-4, AC-4 HBR4, AC-4 HBR16, AC-4 LD and MPEG-4 ALS in LATM/LOAS are added;

b) units of Pd column is added to Table 2;

c) update SMPTE reference.

In the next full revision of IEC 61937-2, it is planned to relinquish the use of "Conventional data-type" and "Subdata-type", replacing them with "data-type bits 0 to 4" and "data-type bits 5 to 6", respectively.

CONTENTS

1 Scope 2
2 Normative references 2
3 Terms, definitions and abbreviations 3
3.1 Terms and definitions 3
3.2 Abbreviations 4
4 Burst-info 4
4.1 General 4
4.2 Data-type and subdata-type 4
4.3 Audio data-bursts 7
4.3.1 General 7
4.3.2 AC-3 7
4.3.3 MPEG-1 layer-1 7
4.3.4 MPEG-1 layer-2 or -3 or MPEG-2 without extension 7
4.3.5 MPEG-2 with extension 7
4.3.6 MPEG-2 AAC 7
4.3.7 MPEG-2 layer-1 low sampling frequency 7
4.3.8 MPEG-2 layer-2 low sampling frequency 8
4.3.9 MPEG-2 layer-3 low sampling frequency 8
4.3.10 DTS type I 8
4.3.11 DTS type II 8
4.3.12 DTS type III 8
4.3.13 DTS type IV 8
4.3.14 ATRAC 8
4.3.15 ATRAC 2/3 8
4.3.16 ATRAC-X 8
4.3.17 MPEG-2 AAC low sampling frequency 8
4.3.18 MPEG-4 AAC 9
4.3.19 Windows Media Audio professional 9
4.3.20 Enhanced AC-3 9
4.3.21 MAT 9
4.3.22 MPEG-4 ALS 9
4.3.23 MPEG-4 AAC LC in LATM/LOAS 9
4.3.24 MPEG-4 HE AAC in LATM/LOAS 9
4.3.25 DRA 9
4.3.26 ATRAC-X low latency 10
4.3.27 MPEG-H 3D Audio 10
4.3.28 AC-4, AC-4 HBR4, AC-4 HBR16 and AC-4 LD 10
4.3.29 MPEG-4, ALS in LATM/LOAS 10
Bibliography 11

Table 1 – Fields of burst-info 4
Table 2 – Data-types 5

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

Part 2: Burst-info

1 Scope

This part of IEC 61970 specifies the digital audio interface to convey non-linear PCM encoded audio bitstreams applying IEC 60958-1 and IEC 60958-3. This standard specifies burst-info which defines content information about the data contained in the burst payload.

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 60958-1, *Digital audio interface – Part 1: General*

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

[A2] IEC 61937-1:2007 [A2], *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 1: General*

IEC 61937-3, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 3: Non-linear PCM bitstreams according to the AC-3 format*

IEC 61937-4, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 4: Non-linear PCM bitstreams according to the MPEG audio formats*

IEC 61937-5, *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)*

[A2] IEC 61937-8:2006 [A2], *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 61937-7, *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 61937-8, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 8: Non-linear PCM bitstreams according to the Windows Media Audio (WMA) Professional format*

[A1]IEC 61937-9, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 9: Non-linear PCM bitstreams according to the MAT format* [A1]

[A1]IEC 61937-10, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 10: Non-linear PCM bitstreams according to the MPEG-4 audio lossless coding (ALS) format*

IEC 61937-11, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 11: MPEG-4 AAC and its extensions in LATM/LOAS*

IEC 61937-12, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 12: Non-linear PCM bitstreams according to the DRA formats* [A1]