



NSAI
Standards

Irish Standard
I.S. EN 61606-2:2009

Audio and audiovisual equipment -
Digital audio parts - Basic
measurement methods of audio
characteristics -- Part 2: Consumer use
(IEC 61606-2:2009 (EQV))

I.S. EN 61606-2:2009

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i> EN 61606-2:2004	<i>This document is based on:</i> EN 61606-2:2009 EN 61606-2:2004	<i>Published:</i> 27 November, 2009 26 March, 2004
This document was published under the authority of the NSAI and comes into effect on: 2 February, 2010		ICS number: 33.160.01
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61606-2

November 2009

ICS 33.160.01

Supersedes EN 61606-2:2004

English version

Audio and audiovisual equipment -
Digital audio parts -
Basic measurement methods of audio characteristics -
Part 2: Consumer use
(IEC 61606-2:2009)

Equipements audio et audiovisuels -
Parties audionumériques -
Méthodes fondamentales
pour la mesure
des caractéristiques audio -
Partie 2: Utilisation par le consommateur
(CEI 61606-2:2009)

Audio- und audiovisuelle Geräte -
Digitale Tonteile -
Grundlegende Messverfahren
der Audio-Eigenschaften -
Teil 2: Allgemeingebrauch
(IEC 61606-2:2009)

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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: Avenue Marnix 17, B - 1000 Brussels

I.S. EN 61606-2:2009

EN 61606-2:2009

- 2 -

Foreword

The text of document 100/1548/FDIS, future edition 2 of IEC 61606-2, 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 61606-2 on 2009-09-01.

This European Standard supersedes EN 61606-2:2004.

The significant technical changes with respect to EN 61606-2:2004 are the following:

- changed the period of preconditioning;
- add A weighting filter in measuring instruments;
- correct the wrong reference number;
- some inappropriate descriptions have been improved.

This Part 2 is to be used in conjunction with EN 61606-1, General.

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) | 2010-06-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2012-09-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61606-2:2009 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 60268-2	– ¹⁾	Sound system equipment - Part 2: Explanation of general terms and calculation methods	HD 483.2 S2	1993 ²⁾
IEC 60958	Series	Digital audio interface	EN 60958	Series
IEC 61606-1	2009	Audio and audiovisual equipment - Digital audio parts - Basic measurement methods of audio characteristics - Part 1: General	EN 61606-1	2009
IEC 61672-1	– ¹⁾	Electroacoustics - Sound level meters - Part 1: Specifications	EN 61672-1	2003 ²⁾
IEC 61883-6	– ¹⁾	Consumer audio/video equipment - Digital interface - Part 6: Audio and music data transmission	EN 61883-6	2005 ²⁾
IEC 61938	– ¹⁾	Audio, video and audiovisual systems - Interconnections and matching values - Preferred matching values of analogue signals	EN 61938 + corr. February	1997 ²⁾ 1997

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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CONTENTS

FOREWORD.....	5
1 Scope.....	7
2 Normative references	7
3 Terms, definitions, explanations and rated values	7
3.1 Terms and definitions	7
3.2 Explanation of terms “jitter”	8
3.3 Digital interface for measurement	8
3.4 Rated values	8
4 Measuring conditions.....	8
4.1 General	8
4.2 Environmental conditions	8
4.3 Power supply.....	8
4.4 Test signal frequencies	8
4.5 Standard setting	8
4.6 Preconditioning	9
4.7 Measuring instruments	9
4.7.1 General	9
4.7.2 Digital level meter.....	9
4.7.3 Distortion meter	9
4.7.4 Analogue weighting filter	10
4.7.5 Digital weighting filter	10
4.7.6 Digital spectrum analyzer	10
5 Methods of measurement (digital-in/analogue-out)	10
5.1 General.....	10
5.2 Input/output characteristics	10
5.2.1 Maximum output amplitude	10
5.2.2 Gain difference between channels	11
5.3 Frequency characteristics.....	11
5.3.1 Frequency response	11
5.3.2 Group delay (phase linearity).....	12
5.4 Noise characteristics	13
5.4.1 Signal-to-noise ratio	13
5.4.2 Dynamic range	13
5.4.3 Out-of-band noise ratio.....	14
5.4.4 Channel separation	15
5.5 Distortion characteristics	16
5.5.1 Level non-linearity	16
5.5.2 Distortion and noise.....	17
5.5.3 Intermodulation.....	17
6 Methods of measurement (analogue-in/digital-out)	18
6.1 General.....	18
6.2 Input/output characteristics	18
6.2.1 Analogue to digital level calibration	18
6.2.2 Maximum allowable input amplitude.....	20
6.2.3 Gain difference between channel and tracking error	21
6.3 Frequency characteristics.....	23

6.3.1	Frequency response	23
6.3.2	Group delay.....	24
6.4	Noise characteristics	25
6.4.1	Signal-to-noise ratio (idle channel noise).....	25
6.4.2	Dynamic range	27
6.4.3	Folded noise.....	28
6.4.4	Cross-talk.....	29
6.4.5	Channel separation	31
6.5	Distortion characteristics	33
6.5.1	Level non-linearity	33
6.5.2	Distortion and noise.....	34
6.5.3	Intermodulation.....	35
Figure 1 – Connection diagram of equipment.....		11
Figure 2 – Connection diagram of equipment.....		11
Figure 3 – Connection diagram of equipment.....		12
Figure 4 – Connection diagram of equipment.....		13
Figure 5 – Connection diagram of equipment.....		14
Figure 6 – Connection diagram of equipment.....		14
Figure 7 – Connection diagram of equipment.....		15
Figure 8 – Connection diagram of equipment.....		16
Figure 9 – Connection diagram of equipment.....		17
Figure 10 – Connection diagram of equipment.....		17
Figure 11 – Connection diagram of equipment.....		18
Figure 12 – Connection diagram of equipment.....		19
Figure 13 – Connection diagram of equipment.....		20
Figure 14 – Connection diagram of equipment.....		20
Figure 15 – Connection diagram of equipment.....		21
Figure 16 – Connection diagram of equipment.....		22
Figure 17 – Connection diagram of equipment.....		23
Figure 18 – Connection diagram of equipment.....		23
Figure 19 – Connection diagram of equipment.....		24
Figure 20 – Connection diagram of equipment.....		24
Figure 21 – Connection diagram of equipment.....		25
Figure 22 – Connection diagram of equipment.....		26
Figure 23 – Connection diagram of equipment.....		27
Figure 24 – Connection diagram of equipment.....		27
Figure 25 – Connection diagram of equipment.....		28
Figure 26 – Connection diagram of equipment.....		28
Figure 27 – Connection diagram of equipment.....		30
Figure 28 – Connection diagram of equipment.....		30
Figure 29 – Connection diagram of equipment.....		31
Figure 30 – Connection diagram of equipment.....		32
Figure 31 – Connection diagram of equipment.....		33
Figure 32 – Connection diagram of equipment.....		33

I.S. EN 61606-2:2009

– 4 –

61606-2 © IEC:2009(E)

Figure 33 – Connection diagram of equipment	34
Figure 34 – Connection diagram of equipment	34
Figure 35 – Connection diagram of equipment	35
Figure 36 – Connection diagram of equipment	36
Table 1 – Levels for measurement	16
Table 2 – Interfering frequency	29

INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUDIO AND AUDIOVISUAL EQUIPMENT – DIGITAL AUDIO PARTS – BASIC MEASUREMENT METHODS OF AUDIO CHARACTERISTICS –

Part 2: Consumer use

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61606-2 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

This second edition cancels and replaces the first edition published in 2003. It constitutes a technical revision.

The significant technical changes with respect to the first edition are the following:

- changed the period of preconditioning;
- add A weighting filter in measuring instruments;
- correct the wrong reference number;
- some inappropriate descriptions have been improved.

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

FDIS	Report on voting
100/1548/FDIS	100/1582/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 part is to be used in conjunction with IEC 61606-1, General.

A list of all parts of the IEC 61606 series, under the general title *Audio and audiovisual equipment – Digital audio parts – Basic measurement methods of audio characteristics*, can be found on the IEC website.

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

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

AUDIO AND AUDIOVISUAL EQUIPMENT – DIGITAL AUDIO PARTS – BASIC MEASUREMENT METHODS OF AUDIO CHARACTERISTICS –

Part 2: Consumer use

1 Scope

This part of IEC 61606 is applicable to the basic measurement methods of the audio characteristics of the digital audio part of audio and audiovisual equipment for consumer use.

The common measuring conditions and methods are described in IEC 61606-1. This International Standard specifies conditions and methods of measurement for consumer equipment are given in this standard.

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 60268-2, *Sound system equipment – Part 2: Explanation of general terms and calculation methods*

IEC 60958 (all parts), *Digital audio interface*

IEC 61606-1:2009, *Audio and audiovisual equipment – Digital audio parts – Basic measurement methods of audio characteristics – Part 1: General*

IEC 61672-1, *Electroacoustics – Sound level meters – Part 1: Specifications*

IEC 61883-6, *Consumer audio/video equipment – Digital interface – Part 6: Audio and music data transmission protocol*

IEC 61938, *Audio, video and audiovisual systems – Interconnections and matching values – Preferred matching values of analogue signals*

3 Terms, definitions, explanations and rated values

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61606-1 as well as the following apply.

3.1.1

analogue full-scale amplitude

nominal signal level of an EUT corresponding to the digital full-scale level

NOTE In order to accommodate the EUT in an audio system, it is recommended that the analogue full scale amplitude has the value defined in IEC 61938. In the case of general purpose audio for consumer equipment, the amplitude is 2 V r.m.s.

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