



**SLOVENSKI STANDARD**  
**SIST EN 61096:1999**

**01-april-1999**

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**Methods of measuring the characteristics of reproducing equipment for digital audio compact discs (IEC 61096:1992)**

Methods of measuring the characteristics of reproducing equipment for digital audio compact discs

Meßverfahren für die Eigenschaften von Wiedergabegeräten für Digital-Audio-Compactplatten

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

Méthodes de mesure des caractéristiques des appareils de lecture pour les disques compacts audionumériques

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**Ta slovenski standard je istoveten z: EN 61096:1993**

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**ICS:**

33.160.30

Avdio sistemi

Audio systems

**SIST EN 61096:1999**

**en**

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Descriptors: Disk readers, compact disks, characteristics, measurement

## ENGLISH VERSION

Methods of measuring the characteristics of  
reproducing equipment for digital audio compact  
discs  
(IEC 1096:1992)

Méthodes de mesure des  
caractéristiques des appareils  
de lecture pour les disques  
compacts audionumériques  
(CEI 1096:1992)

Meßverfahren für die  
Eigenschaften von  
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(IEC 1096:1992)

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This European Standard was approved by CENELEC on 1992-03-24. 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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

FOREWORD

The text of document 60A(CO)141, as prepared by sub-committee 60A: Sound recording, of IEC technical committee 60: Recording, was submitted to the IEC-CENELEC parallel vote in July 1991.

The reference document was approved by CENELEC as EN 61096 on 24 March 1992.

The following dates were fixed:

- latest date of publication of  
an identical national standard (dop) 1993-08-01
- latest date of withdrawal of  
conflicting national standards (dow) 1993-08-01

ENDORSEMENT NOTICE

The text of the International Standard IEC 1096:1992 was approved by CENELEC as a European Standard without any modification.

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ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD  
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
38 (mod)	1983	IEC Standard voltages !	HD 472 S1	1989
65 (mod)	1985	Safety requirements for mains operated electronic and related apparatus for household and similar general use	HD 195 S6	1989
225	1966	Octave, half-octave and third-octave band filters intended for the analysis of sounds and vibrations	-	-
268-1	1985	Sound system equipment - Part 1: General	HD 483.1 S2*	1989
268-2	1987	Part 2: Explanation of general terms and calculation methods	HD 483.2 S1	1989
268-13	1985	Part 13: Listening tests on loudspeakers	-	-
268-15	1987	Part 15: Preferred matching values for the interconnection of sound system components	HD 483.15 S4*	1992
908	1987	Compact disc digital audio system	EN 60908	1992
958	1989	Digital audio interface	EN 60958	1990

ISO Publication:

266	1975	Acoustics - Preferred frequencies for measurements		
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! The title of HD 472 S1 is: Nominal voltages for low voltage public electricity supply systems

\* HD 483.1 S2 includes A1:1988 to IEC 268-1

HD 483.15 S4 includes A1:1989, A2:1990 and A3:1991 to IEC 268-15

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INTERNATIONALE  
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1992-08

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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For price, see current catalogue

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

METHODS OF MEASURING THE CHARACTERISTICS  
OF REPRODUCING EQUIPMENT  
FOR DIGITAL AUDIO COMPACT DISCS

## 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 cooperation 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, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, 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.

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International Standard IEC 1096 has been prepared by sub-committee 60A: Sound recording, of IEC technical committee 60: Recording.

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

DIS	Report on Voting
60A(CO)141	60A(CO)149

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

# METHODS OF MEASURING THE CHARACTERISTICS OF REPRODUCING EQUIPMENT FOR DIGITAL AUDIO COMPACT DISCS

## 1 Scope and object

This International Standard applies to reproducing equipment for digital audio compact discs that conform to the specifications of IEC 908.

### NOTES

- 1 For convenience, this reproducing equipment will be referred to as a "CD player" throughout the text of this standard.
- 2 This standard does not include specifications for listening tests (see IEC 268-13).

The object of this standard is to list and define the characteristics affecting the performance of CD players, to establish conditions and methods of measurement of those characteristics, and to standardize the presentation of results.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreement based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of ISO and IEC maintain registers of currently valid International Standards.

IEC 38: 1983, *IEC standard voltages*.

IEC 65: 1985, *Safety requirements for mains operated electronic and related apparatus for household and similar general use*.

IEC 225: 1966, *Octave, half-octave and third-octave band filters intended for the analysis of sounds and vibrations*.

IEC 268-1: 1985, *Sound system equipment - Part 1: General*.

IEC 268-2: 1987, *Sound system equipment - Part 2: Explanation of general terms and calculation methods*.

IEC 268-13: 1985, *Sound system equipment - Part 13: Listening tests on loudspeakers*.

IEC 268-15: 1987, *Sound system equipment - Part 15: Preferred matching values for the interconnection of sound system components*.  
Amendment 2 (1990).

IEC 908: 1987, *Compact disc digital audio system*.

IEC 958: 1989, *Digital audio interface*.

ISO 266: 1975, *Acoustics - Preferred frequencies for measurements*.

### 3 Terminology

Each parameter to be measured is defined in the relevant clause pertaining to measurement (see clause 5). For this International Standard, the following definitions apply.

**3.1 reference value:** The specified value of any given parameter selected as a reference to which other values are compared.

**3.2 reference recorded level:** The level of a sinusoidal analogue signal, whose peak voltage corresponds to the full-scale digital coding level, represented by (7FFF)H and (8000)H in 2's complement form, is specified as 0 dB in this standard.

**3.3 reference frequency:** In this standard the reference frequency is 1 kHz.

**3.4 reference output voltage:** The voltage that appears across the rated load impedance when reproducing reference recorded level at reference frequency.

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### 4 Information required from manufacturers of CD players

This information falls into two distinct categories:

- a) mandatory information which shall be clearly shown on the CD player. This requirement is indicated by the letter "A" on the right-hand side of the page;
- b) optional information which may be given separately, for example in an instruction manual relating to and supplied with the CD player.

It is essential that mandatory information outside the scope of this standard be also given in the correct location as specified in the relevant standard (e.g. for aspects of safety, see IEC 65).

#### 4.1 Identification

- |  |   |
|--|---|
| 4.1.1 Name of manufacturer and/or trade mark                           | A |
| 4.1.2 Model or type and serial number (variants, if any, to be stated) | A |