SLOVENSKI STANDARD

SIST EN 62121:2007

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Metode za meritve snemalnikov/predvajalnikov minidiskov (IEC 62121:2001) (istoveten EN 62121:2001)

Methods of measurement for minidisc recorders/players (IEC 62121:2001)

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ICS 33.160.30

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EUROPEAN STANDARD

EN 62121

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2001

ICS 33.160.30

English version

Methods of measurement for minidisc recorders/players (IEC 62121:2001)

Méthodes de mesure des appareils de lecture et d'enregistrement pour les minidisques (CEI 62121:2001) Messverfahren für MiniDisc-Recorder/Wiedergabegeräte (IEC 62121:2001)

iTeh STANDARD PREVIEW

This European Standard was approved by CENELEC on 2001 12-01. 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 hational 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, Iceland, Ireland, Italy, Luxembourg, Malta, 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

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Foreword

The text of document 100B/392/FDIS, future edition 1 of IEC 62121:2001, 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 62121 on 2001-12-01.

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) 2002-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn
 (dow) 2004-12-01

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given for information only. In this standard, annexes A and ZA are normative and annexes B and C are informative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62121:2001 was approved by CENELEC as a European Standard without any modification (standards.iteh.ai)

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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.

Publication	Year	Title	<u>EN/HD</u>	<u>Year</u>
IEC 60065 (mod)	1998	Audio, video and similar electronic apparatus - Safety requirements	EN 60065 +corr. June	1998 1999
IEC 60068-2-27	1987	Basic environmental testing procedures Part 2: Tests - Test Ea and guidance: Shock	EN 60068-2-27	1993
IEC 60268-13	1998	eh STANDARD PREVI Sound system equipment Part (3: Listening tests on loudspeakers	EW	-
IEC 60651	1979	Sound level meters	EN 60651	1994
IEC 60721-3-5	https://sta	Classification of environmental conditions Part 3: Classification of groups of environmental parameters and their severities Section 5: Ground vehicle installations	¹⁹ EN 60721-3-5	1997
IEC 60958	1989	Digital audio interface	EN 60958	1990
IEC 61606	1997	Audio and audiovisual equipment - Digital audio parts - Basic methods of measurement of audio characteristics	EN 61606	1997
IEC 61909	2000	Audio recording - Minidisc system	EN 61909	2000
ISO 532	1975	Acoustics - Methods for calculating loudness levels	-	-
ISO 1996	Series	Acoustics - Description and measurement of environmental noise	-	-

Publication	Year	Title	<u>EN/HD</u>	<u>Year</u>
ISO 3740	19801)	Acoustics - Determination of sound power levels of noise sources - Guidelines for the use of basic standards and for the preparation of noise test codes	-	-
ISO 3741	1999	Acoustics - Determination of sound power levels of noise sources using sound pressure - Prescision methods for reverbation rooms	EN ISO 3741	1999
ISO 3743-1	1994	Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering methods for small, movable sources in reverberant fields Part 1: Comparison method for hard- walled test rooms	EN ISO 3743-1	1995
ISO 3743-2	1994	Part 2: Methods for special reverberation test rooms	EN ISO 3743-2	1996
ISO 3744	1994 iT	Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane	EN ISO 3744	1995
ISO 3745	1977 https://sta	Acoustics - Determination of sound power levels of noise sources ² -e ⁹¹⁰ -ba57-49 Precision methods for anechoic and semi-anechoic rooms	9ef-8b89-	-

¹⁾ ISO 3740:2000 is harmonized as EN ISO 3740:2000.

NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI **IEC** 62121

Première édition First edition 2001-10

Méthodes de mesure des appareils de lecture et d'enregistrement pour les minidisques

Methods of measurement for minidisc iTecorders/playersD PREVIEW (standards.iteh.ai)

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Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

METHODS OF MEASUREMENT FOR MINIDISC RECORDERS/PLAYERS

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.
- 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.
- 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.

International Standard IEC 62121 has been prepared by 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	
100B/392/FDIS	100B/424/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 3.

Annex A forms an integral part of this standard.

Annexes B and C are for information only.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

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

METHODS OF MEASUREMENT FOR MINIDISC RECORDERS/PLAYERS

1 Scope and object

This International Standard specifies the measuring methods for recording and reproducing equipment for MiniDiscs that conform to the specifications of IEC 61909.

NOTE 1 For convenience, this recording and reproducing equipment will be referred to as "MD recorder" hereinafter. The reproducing part of this equipment or equipment with only a reproducing function will be referred to as "MD player" throughout the text of this standard. If there is no risk of misunderstanding, the term "MD recorder" will be generally used.

NOTE 2 This standard does not include specifications for listening tests (see IEC 60268-13).

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

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this international Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standardscf-8b89-

ced8db142d78/sist-en-62121-2007

IEC 60065:1998, Audio, video and similar electronic apparatus – Safety requirements

IEC 60068-2-27:1987, Environmental testing – Part 2: Test – Test Ea and guidance: Shock

IEC/TR 60268-13:1998, Sound system equipment – Part 13: Listening tests on loudspeakers

IEC 60651:1979, Sound level meters

IEC 60721-3-5:1997, Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their services, – Section 5: Ground vehicle installations

IEC 60958:1989, *Digital audio interface*

IEC 61606:1997, Audio and audiovisual equipment – Digital audio parts – Basic methods of measurement of audio characteristics

IEC 61909:2000, Audio recording – MiniDisc System.

ISO 532:1975, Acoustics – Methods for calculating loudness levels

ISO 1996 (all parts), Acoustics – Description and measurement of environmental noise

ISO 3740:1980, Acoustics – Determination of sound power levels of noise sources – Guidelines for the use of basic standards and for the preparation of noise test codes

ISO 3741:1999, Acoustics – Determination of sound power levels of noise sources – Precision methods for broad band sources in reverberation rooms

ISO 3743-1:1994, Acoustics – Determination of sound power levels of noise sources – Engineering methods for small, movable sources in reverberation fields – Part 1: Comparison method for hard walled test rooms

ISO 3743-2:1994, Acoustics – Determination of sound power levels of noise sources using sound pressure – Engineering methods for small, movable sources in reverberant fields – Part 2: Methods for special reverberation test rooms

ISO 3744:1994, Acoustics – Determination of sound power levels of noise sources using sound pressure – Engineering method in an essentially free field over a reflecting plane.

ISO 3745:1977, Acoustics – Determination of sound power levels of noise sources – Precision methods for anechoic and semi anechoic rooms

3 Terms and definitions

For the purpose of this International Standard, the terms and definitions given in the relevant clauses pertaining to measurement (see clauses 6 and 7) and the following definitions apply.

3.1

meaning of the expression "designated xxxxx" is 772.007 the item or value that is designated by a manufacturer based on the reference item or value

EXAMPLE:

Designated recording level: This is the recording level designated by a manufacturer based on the reference recording level which is indicated on an attached level meter

3.2 reference frequency the value is 1 kHz

3.3

reference recording level

the reference for measurements and corresponds to the average music level It is equal to -12 dB of the full scale signal level of the MiniDisc (= 0,5 V)

3.4

maximum recording level

this level is specified as the maximum in the test disc.

It is equal to the full scale signal level of the MiniDisc (= 2,0 V)

3.5

reference source impedance

the impedance designated as the source impedance for the input terminal. An equivalent resistor should terminate the input terminal as the source impedance during the measurements

3.6

reference input level

the input level of the reference frequency signal at the input terminal to attain the reference recording level at a designated attenuation of the recording volume control

3.7

reference load impedance

the impedance designated as the load impedance for the output terminal. An equivalent resistor should terminate the output terminal as the load impedance during the measurements

3.8

reference output level

the output level at the output terminal that is terminated by the designated load impedance during the reproduction of the reference recording level signal

3.9

full-scale output level

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the output level at the output terminal, terminated by a designated load impedance, during the reproduction of the maximum recording level signal of the test disc. It corresponds to +12 dB of the reference or designated output level

3.10

minimum input level

the level of the reference frequency signal at the input terminal to obtain the designated recording level at the maximum level position of the recording volume control

4 Information required from manufacturers of MD recorders

4.1 Introduction

This information falls into two distinct categories:

- a) mandatory information that shall be clearly shown on the MD recorder. The requirements are 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 MD recorder.

It is essential that mandatory information outside the scope of this standard be given in the correct location as specified in other relevant standards (for example, for aspects of safety, see IEC 60065).