SLOVENSKI STANDARD
SIST EN 61909:2005

01-januar-2005

Avdiosnemanje – Sistem minidisk (IEC 61909:2000)

Audio recording - Minidisc system

Tonaufzeichnung - Minidisc-System

Enregistrement audio - Système de minidisques

Ta slovenski standard je istoveten z: **EN 61909:2000**

ICS:

33.160.30 Avdio sistemi Audio systems

SIST EN 61909:2005 **en**

EUROPEAN STANDARD **EN 61909**

NORME EUROPÉENNE

EUROPÄISCHE NORM August 2000

ICS 33.160.30

English version

Audio recording - Minidisc system
(IEC 61909:2000)

Enregistrement audio
Système de minidisque
(CEI 61909:2000)

Tonaufzeichnung - Minidisc-System
(IEC 61909:2000)

This European Standard was approved by CENELEC on 2000-08-01. 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, 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

Ref. No. EN 61909:2000 E

Foreword

The text of document 100B/259/FDIS, future edition 1 of IEC 61909, prepared by SC 100B, Audio, video and multimedia information storage systems, of 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 61909 on 2000-08-01.

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) 2001-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2003-08-01

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

Endorsement notice

The text of the International Standard IEC 61909:2000 was approved by CENELEC as a European Standard without any modification.

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	EN/HD	Year
IEC 60908	1999	Audio recording - Compact disc digital audio system	EN 60908	1999
IEC 60958	1989	Digital audio interface	EN 60958	1990
ISO 683-13	1986	Heat-treatable steels, alloy steels and free-cutting steels -- Part 13: Wrought stainless steels		
ISO 3901	1986	Documentation -- International Standard Recording Code (ISRC)		
ISO 8859-1	1986	Information technology -- 8-bit single-byte coded graphic character sets -- Part 1: Latin alphabet No. 1		
JISX0208	1990	Code of the Japanese graphic character set for information interchange		

INTERNATIONAL STANDARD

IEC 61909

First edition
2000-06

Audio recording – Minidisc system

Enregistrement audio – Système de minidisque

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUDIO RECORDING – MINIDISC SYSTEM

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 61909 has been prepared by subcommittee 100B: Audio, video and multimedia information storage systems, 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
100B/259/FDIS	100B/268/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 is for information only.

The committee has decided that the contents of this publication will remain unchanged until 2010-06. At this date, the publication will be

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

A bilingual or French version of this standard may be issued at a later date.

AUDIO RECORDING – MINIDISC SYSTEM

1 General

1.1 Scope

This International Standard applies to the MiniDisc (MD). It defines the mechanical and electrical characteristics necessary to ensure the interchangeability of both premastered optical discs and recordable magneto-optical discs of 64 mm diameter for the compressed digital audio recording system.

1.2 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 Standards.

IEC 60908:1999, *Compact disc digital audio system*

IEC 60958:1989, *Digital audio interface*

ISO 683-13:1986, *Heat-treatable steels, alloy steels and free-cutting steels – Part 13: Wrought stainless steels*

ISO 3901:1986, *Documentation – International Standard Recording Code (ISRC)*

ISO 8859-1:1998, *Information technology – 8 bit single byte coded graphic character sets – Part 1: Latin alphabet No. 1*

JISX0208:1990, *Code of the Japanese graphic character set for information interchange*

1.3 Basic parameters

1.3.1 Main parameters

Maximum playing and recording time:	approximately 74 min (stereo) approximately 148 min (mono)
Cartridge size:	68 depth × 72 width × 5 height (mm)

1.3.2 Disc parameters

Diameter of the disc:	64 mm
Starting diameter of the lead-in area:	29 mm
Diameter of the centre hole:	11 mm
Thickness of the disc:	1,2 mm
Track pitch:	1,6 µm
Scanning velocity:	1,2 m/s ~ 1,4 m/s

1.3.3 Optical parameters

Laser wavelength:	780 nm typical
Objective lens NA (numerical aperture):	0,45
Recording power:	2,5 mW ~ 5,0 mW
Recording strategy:	magnetic field modulation

1.3.4 Signal format

Modulation:	EFM
Error correction system:	advanced CIRC (ACIRC)

1.3.5 Transfer rates

Main data rate:	292 kbit/s
Sub-data rate:	36,5 kbit/s (premastered MD) 9,1 kbit/s (recordable MD)

1.3.6 Audio format

Number of channels:	2 channels. stereo or double play mono
Sampling frequency:	44,1 kHz
Coding:	ATRAC (adaptive transform acoustic coding)