SLOVENSKI STANDARD

SIST EN 62107:2007

januar 2007

Super video kompaktna plošča - Specifikacija sistema za menjavo plošč (IEC 62107:2000)

(istoveten EN 62107:2001)

Super video compact disc - Disc-interchange system- specification (IEC 62107:2000)

ICS 33.160.40

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN 62107

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English version

Super video compact disc - Disc-interchange system-specification (IEC 62107:2000)

Super vidéodisque compact - Système d'échange de disques - Spécifications (CEI 62107:2000)

Super-Video-Compact-Disc - Systemanforderungen für den Plattenaustausch (IEC 62107:2000)

This European Standard was approved by CENELEC on 2000-09-01. 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.

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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/261/FDIS, future edition 1 of IEC 62107, 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 62107 on 2000-09-01.

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)	2001-12-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2003-09-01

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 annexes A and B are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62107:2000 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60908	NOTE	Harmonized as EN 60908:1999 (not modified).
IEC 61104	NOTE	Harmonized as EN 61104:1992 (not modified).

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
ISO/IEC 646	1991	Information technology - ISO 7-bit coded character set for information interchange	-	-
ISO/IEC 10149	1995	Information technology Data interchange on read-only 120 mm optical data disks (CD-ROM)	-	-
ISO/IEC 11172-3	1993	Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s -- Part 3: Audio	EN ISO/IEC 11172-3	1995
ISO/IEC 13818-1	1996	Information technology - Generic coding of moving pictures and associated audio information -- Part 1: Systems	EN ISO/IEC 13818-1	1997
ISO/IEC 13818-2	1996	Information technology - Generic coding of moving pictures and associated audio information -- Part 2: Video	-	-
ISO 9660	1988	Information processing - Volume and file structure of CD-ROM for information interchange	EN 29960	1989

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Super video compact disc – Disc-interchange system-specification

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SUPER VIDEO COMPACT DISC –
Disc-interchange system-specification

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 62107 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/261/FDIS	100B/272/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.

Annexes A and B are for information only.

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

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

INTRODUCTION

There is a market need for a standardized fully digital Compact Disc based video reproduction system. This Super Video CD specification standardizes and upgrades the current Video CD format. It utilizes better Video and Audio quality. It also includes extensions for surround sound multi-channel audio and provisions for PC playback, and is prepared for further future improvements. This standard is based on using variable bit rate (VBR) MPEG2 coding for more efficient use of disc capacity. The target for this standard is further to ensure the best price/performance combination possible with the latest state-of-the-art technology available, and to offer more flexibility for publishers to use the best video/audio quality given limited disc capacity.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. Recipients of this standard are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

SUPER VIDEO COMPACT DISC – Disc-interchange system-specification

1 Scope

This International Standard defines the basic specification of the Super Video Compact Disc, (SuperVCD), characterized by high resolution and high picture quality, which matches current TV receivers.

This standard is intended to be used as a basis for the design, production and compliance testing of SuperVCD discs and playback devices to achieve compatibility with current and future products.

The general SuperVCD disc structure is based on the CD-ROM system (see ISO/IEC 10149).

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.

ISO/IEC 10149:1995, *Information technology – Data interchange on read-only 120 mm optical data disks (CD-ROM)*

ISO/IEC 11172-3:1993, *Information technology – Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s – Part 3: Audio*

ISO/IEC 13818-1:1996, *Information technology – Generic coding of moving pictures and associated audio information: Systems*

ISO/IEC 13818-2:1996, *Information technology – Generic coding of moving pictures and associated audio information: Video*

ISO 646:1991, *Information technology – ISO 7-bit coded character set for information interchange*

ISO 9660:1988, *Information processing – Volume and file structure of CD-ROM for information interchange*

3 Definitions, abbreviations, conventions and symbols

3.1 Definitions

3.1.1
bit rate
rate at which a compressed bit stream is delivered to the input of a decoder

3.1.2
mnemonics
descriptions of different data types used in this standard

3.1.3
mode 2 form 1
CD-ROM track type

3.1.4
mode 2 form 2
CD-ROM track type

3.1.5
mux rate
rate value derived from the sector rate

3.1.6
playback device
any SuperVCD compliant player or other product, such as a PC

3.1.7
program stream
a collection of elementary streams

3.1.8
real-time stream
MPEG2 program stream containing video and audio components to be decoded and presented in time, controlled by timing characteristics in the stream to the decoder

3.1.9
system clock reference
time stamp in the Program Stream

3.1.10
sector
smallest addressable part of a Digital Data Track in the information area that can be accessed independently of other addressable parts of the area
[ISO/IEC 10149]

3.1.11
sector and subcode address representation
all Sector addresses and Subcode addresses are represented in the 3-byte BCD encoded form mm:ss:ff. The minutes field is represented by "mm", the seconds field is represented by "ss", the blocks (Sector) or frames (Subcode) field is represented by "ff"

3.1.12
time-stamp
time of a specific action such as the arrival of a byte or the presentation of a picture

3.1.13
track
continuous area on the disc with one and the same Track Number in the CD Subcode

3.1.14
variable bit rate
variation in time of arrival of the bytes at the input of a decoder