

INTERNATIONAL STANDARD

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Super Video Compact Disc – Disc-interchange system-specification

*Super Vidéodisque Compact –
Système d'échange de disques – Spécifications*

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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.
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- 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.

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

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/IEC 13818-3:1998, *Information technology – Generic coding of moving pictures and associated audio information – Part 3: Audio*

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*

ANSI/EIA-608-94, *Recommended Practice for Line 21 Data Service*