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Guideline for implementation of copy controlled multimedia interface

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC 62436, which is a technical specification, has been prepared by technical area 4: Digital system interfaces and protocols, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
100/1231/DTS	100/1334/RVC

Full information on the voting for the approval of this technical specification 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 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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

INTRODUCTION

Various IEC standards have included methods for transmission of copy control information at the time when they were developed. For instance, IEC 61119-6 defines copyright status bit for DAT recorder, and IEC 60958-3 defines the L bit that is specified in IEC 61119-6.

The current consumer products become more complex and use the many IEC standards in one product.

For instance, a DVD player produces its high quality audio signal securely through IEC 61883-6, it also performs CD quality audio signal through IEC 60958 or IEC 61937, and the DVD player can produce audio signals through the other interface using IEC 60958 conformant data format, defined in IEC 61883-6.

Another example is a digital video recorder with hard disk drive or DVD that produces audio signal to the other audio recorder using IEC 60958 or IEC 61883-6.

These consumer products use many interface standards and should give copy control information and other information appropriately.

This guideline describes

- the relation between digital interface standards,
- the relation of copy control information and related information,
- the method for information implementation.

GUIDELINE FOR IMPLEMENTATION OF COPY CONTROLLED MULTIMEDIA INTERFACE

1 Scope

This Technical Specification gives a guideline for the implementation of the audio and video interfaces with copy control information.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60958 (all parts), *Digital audio interface*

IEC 60958-1, *Digital audio interface – Part 1: General*

IEC 60958-3, *Digital audio interface – Part 3: Consumer applications*

IEC 61119-6, *Digital audio tape cassette system (DAT) – Part 6: Serial copy management system*

IEC 61880-2, *Video systems (525/60) – Video and accompanied data using the vertical blanking interval – Analogue interface – Part 2: 525 progressive scan system*

IEC 61883-6, *Consumer audio/video equipment – Digital interface – Part 6: Audio and music data transmission protocol*

IEC 61909, *Audio recording – Minidisc system*

IEC 61937 (all parts), *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958*

IEC 61937-1, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 1: General*

IEC 61937-2, *Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 2: Bust-info*

IEC 62375, *Video systems (625/50 progressive) – Video and accompanied data using the vertical blanking interval – Analogue interface*