



SLOVENSKI STANDARD

SIST EN 61599:2001

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Videodisk players - Methods of measurement (IEC 61599:1999)

Videodisk players - Methods of measurement

Videoplatten-Abspielgeräte - Meßverfahren

Lecteurs de vidéodisques - Méthodes de mesure

Ta slovenski standard je istoveten z: EN 61599:1999

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EUROPEAN STANDARD
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**Videodisk players - Methods of measurement
(IEC 61599:1999)**

Lecteurs de vidéodisques
Méthodes de mesure
(CEI 61599:1999)

Videoplatten-Abspielgeräte
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This European Standard was approved by CENELEC on 1999-10-01. 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

Foreword

The text of document 100B/229/FDIS, future edition 1 of IEC 61599, 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 61599 on 1999-10-01.

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) 2000-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-10-01

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 61599:1999 was approved by CENELEC as a European Standard without any modification.

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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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60038 (mod) 1983		IEC standard voltages ¹⁾	HD 472 S1	1989
IEC 60065 (mod) 1985		Safety requirements for mains operated electronic and related apparatus for household and similar general use	EN 60065 ²⁾	1993
IEC 60844	1988	Pre-recorded capacitance groove-less videodisc system 50 Hz/625 lines - PAL, on Type VHD	-	-
IEC 60845	1988	Pre-recorded capacitance groove-less videodisc system 60 Hz/525 lined - NTSC, on Type VHD	-	-
IEC 60856	1986	Pre-recorded optical reflective videodisk system "Laser vision" 50 Hz/625 lines PAL	EN 60856	1993
IEC 60857	1986	Pre-recorded optical reflective videodisk system - 'Laser vision' 60 Hz/525 lines M/NTSC	-	-
IEC 60883	1987	Measuring method for chrominance signal-to-random noise ratio for video tape recorders	HD 527 S1	1989
IEC 60958	1989	Digital audio interface	EN 60958	1990
IEC 61041-1	1990	Non-broadcast video tape recorders Methods of measurement Part 1: General video (NTSC/PAL) and audio (longitudinal) characteristics	EN 61041-1	1995

1) The title of HD 472 S1 is: Nominal voltages for low-voltage public electricity supply systems.

2) EN 60065 is superseded by EN 60065:1998 and its corrigendum June 1999, which is based on IEC 60065:1998, mod.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61096	1992	Methods of measuring the characteristics of reproducing equipment for digital audio compact discs	EN 61096	1993
IEC 61237-2	1995	Broadcast video tape recorders - Methods of measurement Part 2: Electrical measurements of analogue composite video signals	EN 61237-2	1995
IEC 61606	1997	Audio and audiovisual equipment - Digital audio parts - Basic methods of measurement of audio characteristics	EN 61606	1997
IEC 61938	1996	Audio, video and audiovisual systems Interconnections and matching values Preferred matching values of analogue signals	EN 61938 + corr. February	1997 1997
ITU-R Recommendation 471-1		Nomenclature and description of colour bar signals	-	-
ITU-R Recommendation 567		Transmission performance for television circuits designed for use in international connections	-	-
ITU-R Report 476		Colourimetric standards in colour television	-	-

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Methods of measurement

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**VIDEODISK PLAYERS –
METHODS OF MEASUREMENT**

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 61599 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/229/FDIS	100B/236/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.

The committee has decided that this publication remains valid until 2003. At this date, in accordance with the committee's decision, the publication will be

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

Annexes A and B are for information only.

VIDEODISK PLAYERS – METHODS OF MEASUREMENT

1 General

1.1 Scope

This International Standard applies to reproducing equipment for videodisks for home use (hereinafter referred to as "player"), that conforms to the specifications of IEC 60844, IEC 60845, IEC 60856 and IEC 60857.

This standard deals with listing and defining the characteristics affecting the performance of videodisk players, establishing conditions and methods of measurement of those characteristics, and standardizing the presentation of results. This standard is not applicable to specify limiting values of the various quantities for acceptable performances. The methods of measurement are designed to make possible the assessment of the performance of the complete player.

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 60038:1983, *IEC standard voltages*

IEC 60065:1985, *Safety requirements for mains operated electronic and related apparatus for household and similar general use*

IEC 60844:1988, *Pre-recorded capacitance grooveless videodisk system, 50 Hz/625 lines – PAL, on type VHD*

IEC 60845:1988, *Pre-recorded capacitance grooveless videodisk system, 60 Hz/525 lines – NTSC, on type VHD*

IEC 60856:1986, *Pre-recorded optical reflective videodisk system. "Laser vision" 50 Hz/625 lines – PAL*

IEC 60857:1986, *Pre-recorded optical reflective videodisk system. "Laser vision" 60 Hz/525 lines – M/NTSC*

IEC 60883:1987, *Measuring method for chrominance signal-to-random noise ratio for videotape recorders*

IEC 60958:1989, *Digital audio interface*

IEC 61041-1:1990, *Non-broadcast video tape recorders – Methods of measurement – Part 1: General, video (NTSC/PAL) and audio (longitudinal) characteristics*

IEC 61096:1992, *Methods of measuring the characteristics of reproducing equipment for digital audio compact discs*

IEC 61237-2:1995, *Broadcast video tape recorders – Methods of measurements – Part 2: Electrical measurements of analogue composite video signals*

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

IEC 61938:1996, *Audio, video and audiovisual systems – Interconnections and matching values – Preferred matching values of analogue signals*

ITU-R Recommendation 471, *Nomenclature and description of colour bar signals*

ITU-R Recommendation 567, *Transmission performance for television circuits designed for use in international connections*

ITU-R Report 476, *Colourimetric standards in colour television*

1.3 Terms and definitions

For the purpose of this International Standard, the following definitions apply. In addition, each parameter to be measured is defined in the relevant clause pertaining to the measurement.

1.3.1

reference level

specified level of any given parameter selected as a reference to which other levels are compared

1.3.2

setting of player

a player plays back a test disk in a normal playback mode. The user settings should be adjusted according to the specifications of the manufacturer. Use the indexed position if indexing is available

1.3.3

test signal output

the output of the test signal should be obtained from the video or audio output terminals described in the interface specifications of the manufacturer's instruction manual, unless otherwise stated

1.4 Abbreviations

LV: laser vision

VHD: video high density

2 Information required from manufacturers of videodisk players

This information falls into two categories:

- a) mandatory information, which shall be clearly shown on the videodisk player. This requirement is indicated by the letter "A" on the right-hand side of the statements in this clause;
- b) optional information, which may be given separately, for example in an instruction manual relating to and supplied with the videodisk player.

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

2.1 Identification

2.1.1 Name of manufacturer and/or trade mark A

2.1.2 Model or type and serial number (variants, if any, to be stated) A

2.1.3 Mechanical characteristics of videodisk player

2.1.3.1 Dimensions

(including knobs, connectors and plugs at front and rear sides)

- | | |
|----------|------------------|
| – height | millimetres (mm) |
| – width | millimetres (mm) |
| – depth | millimetres (mm) |

2.1.3.2 Total weight

kilograms (kg)

2.1.3.3 Special facilities

- | | |
|----------------------|---|
| – operating position | horizontal, or other |
| – systems | single disk player, multi-disk player, car use, portable |
| – remote control | |
| – programming | https://standards.iteh.ai/catalog/standards/sist/46382134-b8f5-4235-b75b-8a353c9f4d16/sist-en-61599-2001 |

2.1.4 Electrical characteristics

- | | | |
|---------------------|-----------------------------------|---|
| – mains supply | volts (V) | A |
| – mains frequency | hertz (Hz) | A |
| – power consumption | voltamperes (VA) | A |
| – output facilities | digital/analogue/optical or other | |

2.1.5 Environment

- | | |
|---------------------|----------------------|
| – temperature range | degrees Celsius (°C) |
| – relative humidity | per cent (%) |
| – air pressure | kilopascals (kPa) |

2.2 Standard conditions for measurements

It is necessary to define certain conditions under which the measurements are to be made. These conditions shall be related to specific test disks chosen from the disks listed in annex A. The following parameters are basic to the methods of measurement specified in this standard:

- environmental conditions;
- power supply;
- interface data.