SLOVENSKI STANDARD
SIST EN 61603-6:2003

01-december-2003

Transmission of audio and/or video and related signals using infra-red radiation - Part 6: Video and audio-visual signals (IEC 61603-6:2001)

Transmission of audio and/or video and related signals using infra-red radiation -- Part 6: Video and audio-visual signals

Übertragung von Ton- und/oder Bildsignalen und verwandten Signalen mit Infrarot-Strahlung -- Teil 6: Video- und audiovisuelle Signale

Transmission de signaux audio et/ou video et de signaux similaires au moyen du rayonnement infrarouge -- Partie 6: Signaux vidéo et audiovisuels

Ta slovenski standard je istoveten z: **EN 61603-6:2002**

ICS:

33.160.99	Druga avdio, video in avdiovizuelna oprema	Other audio, video and audiovisual equipment

SIST EN 61603-6:2003 **en**

EUROPEAN STANDARD **EN 61603-6**

NORME EUROPÉENNE

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ICS 33.160.01;33.040.40

English version

Transmission of audio and/or video and related signals using infra-red radiation Part 6: Video and audio-visual signals (IEC 61603-6:2001)

Transmission de signaux audio et/ou video et de signaux similaires au moyen du rayonnement infrarouge
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Übertragung von Ton- und/oder Bildsignalen und verwandten Signalen mit Infrarot-Strahlung
Teil 6: Video- und audiovisuelle Signale
(IEC 61603-6:2001)

This European Standard was approved by CENELEC on 2001-12-01. 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, Malta, 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

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Foreword

The text of document 100/295/FDIS, future edition 1 of IEC 61603-6, prepared by 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 61603-6 on 2001-12-01.

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) 2002-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-12-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61603-6:2001 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 61603-1	- [1)]	Transmission of audio and/or video and related signals using infra-red radiation Part 1: General	EN 61603-1	1997 [2)]
IEC 61603-2	- [1)]	Part 2: Transmission systems for audio wide band and related signals	EN 61603-2	1997 [2)]
IEC 61938	- [1)]	Audio, video and audiovisual systems - Interconnections and matching values - Preferred matching values of analogue signals	EN 61938 + corr. February	1997 [2)] 1997

1) Undated reference.

2) Valid edition at date of issue.

INTERNATIONAL STANDARD

IEC 61603-6

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Transmission of audio and/or video and related signals using infra-red radiation –

Part 6: Video and audio-visual signals

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Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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TRANSMISSION OF AUDIO AND/OR VIDEO AND RELATED SIGNALS USING INFRA-RED RADIATION –

Part 6: Video and audio-visual signals

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 61603-6 has been prepared by Technical area 3: Infrared 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
100/295/FDIS	100/421/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 the contents of this publication will remain unchanged until 2003. At this date, the publication will be

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

TRANSMISSION OF AUDIO AND/OR VIDEO AND RELATED SIGNALS USING INFRA-RED RADIATION –

Part 6: Video and audio-visual signals

1 Scope

IEC 61603-1 specifies general requirements and methods of measurement for equipment using infrared radiation as a carrier of information.

This part of IEC 61603 specifies requirements and methods of measurement for analogue video transmission systems which are not covered by IEC 61603-1, nor by other standards. It allows systems which make different economic use of the available bandwidth to be described in order for conclusions regarding interference and compatibility to be drawn.

NOTE For details of audio transmission systems, see IEC 61603-2.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61603. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 61603 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 61603-1, *Transmission of audio and/or video and related signals using infra-red radiation – Part 1: General*

IEC 61603-2, *Transmission of audio and/or video and related signals using infra-red radiation – Part 2: Transmission systems for audio wide band and related signals*

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

3 Definitions

For the purposes of this part of IEC 61603, the definitions given in Part 1 apply.

4 Abbreviations

IR	infrared (see IEC 61603-1)
IRED	infrared emitting diode (see IEC 61603-1)
PD	photo diode
O/E	optical/electrical
Tx	transmitter/radiator
Rx	receiver
ND filter	neutral density filter

5 Explanation of terms

5.1 Combined transmitter and radiator

A combined transmitter and radiator (illustrated as element A-B in figure 1) does not have an electrical output.

5.2 Receiver

As well as the general characteristics given in IEC 61603-1, other characteristics may need to be specified if a receiver (illustrated as element B-C in figure 1) is combined with other functions, such as a television set.

5.3 Ancillary equipment

Ancillary equipment, such as power supplies or battery chargers, may be required for the operation of a system. The manufacturer shall specify all the necessary data for correct operation and maintenance.

5.4 Transmission of video signals

The transmission format of composite video signals and Y/C video signals are specified in this part of IEC 61603.

5.5 Safety aspects

Safety aspects are considered in IEC 61603-1.

6 System considerations

6.1 Area of application

This part of IEC 61603 describes a single-channel infrared video transmission system in one direction, mainly used for viewing a video programme from a VCR, video camera, or video disc player.

NOTE 1 In consumer applications, video signals may be available in composite video signals or in Y/C component video signals.

NOTE 2 A channel for video signals is defined in IEC 61603-1.

NOTE 3 Audio signal transmission systems are specified in IEC 61603-2.

NOTE 4 Transmission systems for high-speed data and remote control are under consideration.

6.2 Environmental conditions for operation

The environmental conditions for the equipment are mainly defined in relevant standards for individual units. Unless otherwise specified, the equipment shall at least be capable of operating within the following temperature and relative humidity ranges:

5 °C to 40 °C, and 25 % RH to 75 % RH

Systems and apparatus in accordance with this part of IEC 61603 are primarily used indoors, with the advantage of operating more than one interference-free system in adjacent rooms.

6.3 Partition of functions between elements of the systems

Due to the different applications for different room sizes, equipment is designed in various combinations of functional blocks. It is desirable to have only a few blocks of small size and low installation cost for home application.