

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

Part 2: Transmission systems for audio wide band and related signals

The European Standard EN 61603-2:1997, with the incorporation of amendment A1:2004, has the status of a British Standard

ICS 33.160.99

National foreword

This British Standard is the English language version of EN 61603-2:1997, including amendment A1:2004. It is identical with IEC 61603-2:1997, including amendment 1:2004. Together with BS EN 61603-1:1997, it supersedes BS 6418:1983 which was withdrawn on 1997-12-01.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A1] <A1>. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by [A1] <A1>.

The UK participation in its preparation was entrusted by Technical Committee EPL/100, Audio, video and multimedia systems and equipment, to Subcommittee EPL/100/3, Equipment and systems in the field of audio, video and audiovisual engineering, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

This standard should be read in conjunction with BS 7693:1993 Guide to uses of infra-red transmission and the prevention or control of interference between systems.

BS EN 61603 will consist of six parts:

- Part 1: General;
- Part 2: Transmission systems for audio wide band and related signals;
- Part 3: Transmission systems for audio signals for conference and similar applications;
- Part 4: Transmission systems for low-speed remote control;
- Part 5: Transmission systems for high-speed data and remote control;
- Part 6: Transmission systems for video and audiovisual signals of high quality.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 August 1997

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 18, an inside back cover and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments
15551	12 April 2005	See national foreword

Descriptors: Sound transmission, electroacoustic equipment, infrared radiation, household appliances, specification, measurements, characteristics, performance evaluation, electromagnetic compatibility, marking

English version

Transmission of audio and/or video and related signals using infra-red radiation — Part 2: Transmission systems for audio wide band and related signals

(includes amendment A1:2004)
(IEC 61603-2:1997 + A1:2004)

Transmission de signaux audio et/ou vidéo et de
signaux similaires au moyen du rayonnement
infrarouge — Partie 2: Systèmes de
transmission audio large bande et signaux
similaires
(inclut l'amendement A1:2004)
(CEI 61603-2:1997 + A1:2004)

Übertragung von Ton- und/oder Bildsignalen
und verwandten Signalen mit
Infrarot-Strahlung —
Teil 2: Übertragungssysteme für
Breitband-Audio- und verwandte Signale
(enthält Änderung A1:2004)
(IEC 61603-2:1997 + A1:2004)

This European Standard was approved by CENELEC on 1997-03-11; amendment A1 was approved by CENELEC on 2004-09-01. 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 100C/37/FDIS, future edition 1 of IEC 61603-2, prepared by SC 100C, Audio, video and multimedia subsystems and equipment, 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 61603-2 on 1997-03-11.

This European Standard supersedes HD 455 S1:1985.

This standard is to be used in conjunction with ENV 50185-1:1995.

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) 1997-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-12-01

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 61603-2:1997 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of amendment 1:2004 to the International Standard IEC 61603-2:1997, prepared by IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the formal vote and was approved by CENELEC as amendment A1 to EN 61603-2:1997 on 2004-09-01 without any modification.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2005-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2007-09-01

Endorsement notice

The text of amendment 1:2004 to the International Standard IEC 61603-2:1997 was approved by CENELEC as an amendment to the European Standard without any modification.

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1 General

1.1 Scope

This part of IEC 61603 gives methods for measuring and specifying those characteristics of wide band audio IR transmission systems not covered by Part 1 of this standard (see also 3.1). It allows systems which make different economic use of the available bandwidth to be described in order that conclusions regarding interference and compatibility can be drawn. Interface (matching) values and other system characteristics are also covered. This part of IEC 61603 replaces Chapter 1 of IEC 60764, which covers only two carrier frequencies for analogue audio signals, and which does not cover digital audio.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61603. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and 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. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60068-2:1990, *Environmental testing — Part 2: Tests.*

IEC 60169-8:1978, *Radio-frequency connectors — Part 8: R.F. coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock — Characteristic impedance 50 ohms (type BNC).*

IEC 60169-24:1991, *Radio-frequency connectors — Part 24: Radio-frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (type F).*

IEC 60268-15:1996, *Sound system equipment — Part 15: Preferred matching values for the interconnection of sound system components.*

IEC 60315-4:1982, *Methods of measurement on radio receivers of various classes of emission — Part 4: Radio-frequency measurements on receivers for frequency modulated sound-broadcasting emissions.*

IEC 60581-2:1986, *High fidelity audio equipments and systems — Minimum performance requirements — Part 2: FM radio tuners.*

IEC 60581-8:1986, *High fidelity audio equipments and systems — Minimum performance requirements — Part 8: Combination equipment.*

IEC 60933, *Audio, video and audiovisual systems — Interconnections and matching values.*

IEC 61147:1993, *Uses of infra-red transmission and the prevention or control of interference between systems.*

IEC 61603-1:1997, *Transmission of audio and/or video or related signals using infra-red radiation — Part 1: General.*

CISPR 13:1996, *Limits and methods of measurement of radio interference characteristics of sound and television broadcast receivers and associated equipment.*

CISPR 20:1996, *Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment.*

ITU-R Recommendation 412-6:1994, *Planning standards for FM sound broadcasting at VHF.*

ITU-R Recommendation 641:1994, *Determination of radio-frequency protection ratios for frequency-modulated sound broadcasting.*

ITU-R Recommendation 704:1994, *Characteristics of FM sound broadcasting reference receivers for planning purposes.*