
**Conference systems — Equipment —
Requirements**

Systèmes de conférence — Équipement — Exigences

Preview

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations/governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electro technical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 37, *Language and terminology*, Subcommittee SC 5, *Translation, interpreting and related technology*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Voorbeeld
Preview

Conference systems — Equipment — Requirements

1 Scope

This document specifies requirements for typical conference systems, the parts they are composed of, the auxiliary devices necessary for their use (such as microphones, headphones, and sound reinforcement equipment) and the environment in which they are used. These requirements ensure interoperability and optimum performance under conditions of normal operation.

It is applicable to both wired and wireless systems.

The environment and areas where events are held are described in [Annex A](#).

This document facilitates the determination of the quality of conference systems, the comparison of different systems and the assessment of their proper use by listing their characteristics. This document contains the technical backbone of ISO 20108 and ISO 20109.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 639-3, *Codes for the representation of names of languages — Part 3: Alpha-3 code for comprehensive coverage of languages*

ISO 20108, *Simultaneous interpreting — Quality and transmission of sound and image input — Requirements*

ISO 7000, *Graphical symbols for use on equipment — Registered symbols*

IEC 60118-4, *Electroacoustics — Hearing aids — Part 4: Induction-loop systems for hearing aid purposes — System performance requirements*

IEC 60268-4, *Sound system equipment — Part 4: Microphones*

IEC 60268-7, *Sound system equipment — Part 7: Headphones and earphones*

IEC 60417, *Graphical symbols for use on equipment*

IEC 61603-7, *Transmission systems of audio and/or video and related signals using infra-red radiation — Part 7: Digital audio signals for conference and similar applications*

IEC 62489-1, *Electroacoustics — Audio-frequency induction loop systems for assisted hearing — Part 1: Methods of measuring and specifying the performance of system components*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

**3.1
system**

combination of interacting elements organized to achieve a given objective

[SOURCE: ISO/IEC 30111:2013, 3.6, modified — the wording “one or more stated purposes” is changed to “a given objective”.]

**3.2
wired**

employing cables and connectors for the transfer of *signals* (3.12) and data

**3.3
wireless**

without cables and connectors for the transfer of *signals* (3.12) and data

**3.4
discussion system**

system (3.1) that controls *discussion units* (3.23)

**3.5
sound reinforcement system**

speech reinforcement system
public address system
system (3.1) that amplifies *sound* (3.11)

**3.6
conference system**

system (3.1) that controls technical equipment used to conduct an event

**3.7
language distribution**

transmission of the *floor* (3.9) and *interpreted* (3.32) speech to *participants* (3.25) and *audience* (3.28)

**3.8
interpreting system**

combination of *interpreting* (3.33) equipment and *system* (3.1) for *language distribution* (3.7)

Note 1 to entry: An interpreting system can require the use of interpreting booths compliant with ISO 2603 or ISO 4043, equipped with interpreting consoles compliant with ISO 20109, or a portable interpreting system compliant with ISO 20109.

**3.9
floor**

audio output of *discussion system* (3.4) conveying *microphone* (3.14) input and *auxiliary input* (3.10)

**3.10
auxiliary input**

audio input other than that from *discussion system* (3.4) *microphones* (3.14)

**3.11
sound**

form of energy that moves through media in waves of pressure

[SOURCE: ISO/TS 16976-7:2013, 3.1.5]

**3.12
signal**

detectable transmitted energy that is used to carry information

[SOURCE: ISO/IEC 14776-153:2015, 3.1.87]

3.13**transducer**

device that converts one type of energy to another

[SOURCE: ISO/TS 19130-2:2014, 4.78]

3.14**microphone**

transducer (3.13) that converts *sound* (3.11) into an electrical *signal* (3.12)

[SOURCE: ISO 20109:2016, 3.3, modified — The word “device” is replaced by “transducer”.]

3.15**loudspeaker**

transducer (3.13) that converts an electrical *signal* (3.12) into *sound* (3.11) that is loud enough to be heard at a distance

3.16**amplifier**

electronic device that converts a small *signal* (3.12) to a larger signal

[SOURCE: ISO 5577:2017, 5.1.5, modified — The word “which” is replaced by “that”; Note 1 to entry is removed.]

3.17**headphone**

transducer (3.13) that converts an electrical *signal* (3.12) into *sound* (3.11), designed to be worn close to the ear

[SOURCE: ISO 20109:2016, 3.4, modified — the plural term “headphones” is replaced by the singular “headphone”, the word “device” is replaced by “transducer”.]

3.18**in-ear headphone**

headphone (3.17) designed to be worn inside the ear

3.19**earclip headphone**

earshell headphone

one-ear *headphone* (3.17) designed to be worn attached to the ear

3.20**induction loop**

system (3.1) that transmits an audio *signal* (3.12) directly to a hearing aid

Note 1 to entry: The audio signal is transmitted via a magnetic field, greatly reducing background noise, competing sounds, reverberation and other acoustic distortions in order to improve the clarity of sound.

3.21**central controller**

equipment that directs the operation of the *conference system* (3.6) and the *systems* (3.1) and devices connected to it

3.22**audio mixing device**

equipment for combining, routing and changing the gain, volume, timbre and dynamics of analogue or digital *signals* (3.12), summing them to produce one or more combined output signals

3.23**discussion unit**

electronic device serving a *participant* (3.25) to speak at an event

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