Electroacoustics - Hearing aids - Part 16: Definition and verification of hearing aid features

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 60118-16:2022 sisaldab Euroopa standardi EN IEC 60118-16:2022 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60118-16:2022 consists of the English text of the European standard EN IEC 60118-16:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

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ICS 17.140.50

EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN IEC 60118-16

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English Version

Electroacoustics - Hearing aids - Part 16: Definition and verification of hearing aid features (IEC 60118-16:2022)

Électroacoustique - Appareils de correction auditive - Partie 16: Définition et vérification des caractéristiques des appareils de correction auditive (IEC 60118-16:2022)

Elektroakustik - Hörgeräte - Teil16: Begriffe und Verifikation von Hörgeräteeigenschaften (IEC 60118-16:2022)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of document 29/1110/FDIS, future edition 1 of IEC 60118-16, prepared by IEC/TC 29 "Electroacoustics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60118-16:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-01-20
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60318-5	NOTE Harmonized as EN 60318-5
IEC 60318-4	NOTE Harmonized as EN 60318-4
IEC 60318-6	NOTE Harmonized as EN 60318-6
IEC 60601-2-66:2019	NOTE Harmonized as EN IEC 60601-2-66:2020 (not modified)
IEC 60118-9	NOTE Harmonized as EN IEC 60118-9

IEC 60118-16

Edition 1.0 2022-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Electroacoustics – Hearing aids – Part 16: Definition and verification of hearing aid features

Électroacoustique – Appareils de correction auditive – Partie 16: Définition et vérification des caractéristiques des appareils de correction auditive

IEC 60118-16:2022-03(en-fr)

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INTERNATIONAL STANDARD

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colour inside

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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ELECTROACOUSTICS – HEARING AIDS –

Part 16: Definition and verification of hearing aid features

FOREWORD

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The text of this International Standard is based on the following documents:

Draft	Report on voting
29/1110/FDIS	29/1116/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at http://www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60118 series, published under the general title *Electroacoustics – Hearing aids*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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ELECTROACOUSTICS – HEARING AIDS –

Part 16: Definition and verification of hearing aid features

1 Scope

This part of IEC 60118 gives definitions for common hearing aid features such as noise reduction or feedback reduction, etc. Only acoustical inputs are considered. Binaural features are currently not covered in this document. In addition, measurement procedures are described to verify hearing aid features. The objective is not to evaluate the performance of features but to verify their existence and functionality.

Furthermore, definitions and procedures are kept as general as possible so that this document can be applied to various types of hearing aids, for example, air-conduction hearing aids or bone conduction hearing aids. To this end, the general definition for the term "hearing aid" given in IEC 60118-0 is adopted, and this document does not refer to any specific ear simulator or acoustic coupler but uses a general definition of a coupler. However, if a general view is not applicable or leads to unclear or complex wording, the situation for an air-conduction hearing aid only is considered. Nevertheless, an explanation is given on how this document can be applied to hearing aids which do not use air conduction.

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.

IEC 60118-0:—[1], *Electroacoustics – Hearing aids – Part 0: Measurement of the performance characteristics of hearing aids*

IEC 60118-15, *Electroacoustics – Hearing aids – Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal*

IEC 61260-1, *Electroacoustics – Octave-band and fractional-octave-band filters – Part 1: Specifications*

ISO 21748, *Guidance for the use of repeatability, reproducibility and trueness estimates in measurement uncertainty evaluation*

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:

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

[1] Fourth edition under preparation. Stage at the time of publication: IEC FDIS 60118-0:2022