

Irish Standard
I.S. EN IEC 60118-16:2022

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

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#### I.S. EN IEC 60118-16:2022

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I.S. EN IEC 60118-16:2022 is the adopted Irish version of the European Document EN IEC 60118-16:2022, Electroacoustics - Hearing aids - Part 16: Definition and verification of hearing aid features

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**EN IEC 60118-16** 

NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

April 2022

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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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### EN IEC 60118-16:2022 (E)

# **European foreword**

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IEC 60318-5 NOTE Harmonized as EN 60318-5
IEC 60318-4 NOTE Harmonized as EN 60318-4
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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

EN IEC 60118-16:2022 (E)

# Annex ZA (normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60118-0	1	Electroacoustics - Hearing aids - Part 0: Measurement of the performance characteristics of hearing aids	EN IEC 60118-0	2
IEC 60118-15	-	Electroacoustics - Hearing aids - Part 15: Methods for characterising signal processing in hearing aids with a speech- like signal	EN 60118-15	-
IEC 61260-1	-	Electroacoustics - Octave-band and fractional-octave-band filters - Part 1: Specifications	EN 61260-1	-
ISO 21748	-	Guidance for the use of repeatability, reproducibility and trueness estimates in measurement uncertainty estimation	-	-

<sup>&</sup>lt;sup>1</sup> In preparation. Stage at time of publication: IEC FDIS 60118-0:2022.

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# IEC 60118-16

Edition 1.0 2022-03

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# NORME INTERNATIONALE



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





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IEC 60118-16

Edition 1.0 2022-03

# INTERNATIONAL STANDARD

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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

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **ELECTROACOUSTICS - HEARING AIDS -**

# Part 16: Definition and verification of hearing aid features

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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 <a href="https://www.iec.ch/members\_experts/refdocs">www.iec.ch/members\_experts/refdocs</a>. The main document types developed by IEC are described in greater detail at <a href="https://www.iec.ch/standardsdev/publications">https://www.iec.ch/standardsdev/publications</a>.

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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:—<sup>1</sup>, 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.

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