

Australian Standard[®]

Hearing aids

**Part 14: Specification of a digital
interface device**



This Australian Standard® was prepared by Committee AV-003, Acoustics—Human Effects. It was approved on behalf of the Council of Standards Australia on 3 November 2006. This Standard was published on 20 February 2007.

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- Association of Accredited Certification Bodies
 - Association of Australian Acoustical Consultants
 - Association of Consulting Engineers Australia
 - Audiological Society of Australia
 - Australasian Faculty of Occupational Medicine
 - Australian Acoustical Society
 - Australian Chamber of Commerce and Industry
 - Australian Council of Trade Unions
 - Australian Industry Group
 - Department of Consumer & Employment Protection, WorkSafe Division, WA
 - Department of Labour, NZ
 - National Acoustic Laboratories
 - New South Wales Nurses, Association
 - New Zealand Audiological Society
 - Royal Institute of Naval Architects
 - Safety Institute of Australia
 - The Australian Society of Otolaryngological Head and Neck Surgery
 - Victorian WorkCover Authority
 - WorkCover New South Wales
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 60118.14—2007

Hearing aids

Part 14: Specification of a digital interface device

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NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AV-003, Acoustics—Human Effects.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify the electrical and mechanical requirements for an interface device to allow a general-purpose control such as desktop computer to be connected to hearing aids, for the purpose of electrical setting of their operating parameters.

This Standard is identical with, and has been reproduced from IEC 60118-14, Ed. 1.0 (1998), *Hearing aids – Part 14: Specification of a digital interface device*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this part of IEC 60118’ should read ‘this Australian Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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INTRODUCTION

This part of IEC 60118 has been prepared to define the electrical and mechanical characteristics of the interface (the signals and connectors) to be used for the electrical setting of hearing aid parameters.

This standard was motivated by a desire to avoid the problem of incompatibility between the hearing aids and the parameter setting devices produced by different manufacturers. The standard assumes a general configuration for the electrical setting of parameters which consist of

- a general-purpose control device, such as a desktop computer;
- a hearing aid with electrical control of parameter values;
- an interface to connect the computer to the hearing aid.

This standard only specifies the requirements for the interface between the control device and the hearing aid.

STANDARDS AUSTRALIA

Australian Standard

Hearing aids—Part 14: Specification of a digital interface device

1 Scope

This part of IEC 60118 specifies the electrical and mechanical requirements for an interface device to allow a general-purpose control device such as a desktop computer to be connected to hearing aids, for the purpose of electrical setting of their operating parameters.

There is no specification of anything within the hearing aid, such as types of parameters and their signal processing characteristics, nor is there any specification of the parameter setting procedure – the method used to determine which settings are most appropriate to the person wearing the hearing aid. This standard is restricted to the digital interface between the control device and the hearing aid.

This standard provides a specification such that all hearing aids which can be programmed by the specified digital interface may have their parameters set by a single control device and interface device.

The specifications of this standard are for use in connection with hearing aids with parameters set by a direct electrical connection using a cable. They do not cover hearing aids with parameters controlled by radio frequency or infrared transmission, or any other "wireless" method of control.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60118. 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 60118 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 normative documents.

References to international standards that are struck through in this clause are replaced by references to Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is identified as such.

~~IEC 60601-1-1:1992, Medical electrical equipment—Part 1: General requirements for safety—Section 1: Collateral standard: Safety requirements for medical electrical systems~~

AS/NZS 3200.1.1, Approval and test specification—Medical electrical equipment, Part 1.1: General requirements for safety—Collateral Standard: Safety requirements for medical electrical systems (identical to IEC 60601-1-1)

~~IEC 60118-12:1996, Hearing aids—Part 12: Dimensions of electrical connector systems~~

AS 60118.12, Hearing aids, Part 12: Dimensions of electrical connector systems (identical to IEC 60118-12)