

INTERNATIONAL
STANDARD

ISO
12124

First edition
2001-03-15

**Acoustics — Procedures for the
measurement of real-ear acoustical
characteristics of hearing aids**

*Acoustique — Méthodes pour le mesurage des caractéristiques
acoustiques des appareils de correction auditive sur l'oreille réelle*



Reference number
ISO 12124:2001(E)

© ISO 2001

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2001

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

Contents

	Page
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Limitations	7
5 Conditions for test environment	7
5.1 Environmental conditions	7
5.2 Ambient background noise	8
5.3 Acoustical properties	8
5.4 Sound field characteristics	8
6 Preparation of subject	8
6.1 Otoscopic examination	8
6.2 Position of subject	8
6.3 Instructions to subject	8
7 Measurement procedure	9
7.1 Equipment	9
7.2 Calibration	9
7.3 Equalization methods	9
7.4 Test signal	9
7.5 Location of the subject	10
7.6 Location of the tester	10
7.7 Choice of field reference point	10
7.8 Choice of measurement point	10
7.9 Location and coupling of the hearing aid	10
7.10 Real-ear unaided response (REUR) curve	10
7.11 Real-ear unaided gain (REUG) curve	11
7.12 Real-ear occluded response (REOR) curve	11
7.13 Real-ear occluded gain (REOG) curve	12
7.14 Real-ear aided response (REAR) curve	12
7.15 Real-ear aided gain (REAG) curve	13
7.16 Real-ear insertion gain (REIG) curve	13
8 Data to be recorded	13
Annex	
A Positioning the probe microphone sound inlet at the measurement point	15
Bibliography	17