

Irish Standard I.S. EN 60268-4:2014

Sound system equipment - Part 4: Microphones

 $\ \odot$ CENELEC 2014 No copying without NSAI permission except as permitted by copyright law.

I.S. EN 60268-4:2014

2014-09-17

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R.~xxx: Standard~Recommendation-recommendation~based~on~the~consensus~of~an~expert~panel~and~subject~to~public~consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on: Published:

EN 60268-4:2014 2014-08-29

This document was published ICS number:

under the authority of the NSAI
and comes into effect on:
33.160.50

NOTE: If blank see CEN/CENELEC cover page

NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

 Dublin 9
 W NSAI.ie
 W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online. I.S. EN 60268-4:2014

EUROPEAN STANDARD

EN 60268-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

ICS 33.160.50

Supersedes EN 60268-4:2010

English Version

Sound system equipment - Part 4: Microphones (IEC 60268-4:2014)

Equipements pour systèmes électroacoustiques - Partie 4: Microphones (CEI 60268-4:2014) Elektroakustische Geräte - Teil 4: Mikrofone (IEC 60268-4:2014)

This European Standard was approved by CENELEC on 2014-07-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 100/2116/CDV, future edition 5 of IEC 60268-4, prepared by IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60268-4:2014.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by	(dop)	2015-04-24
•	publication of an identical national standard or by endorsement latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2017-07-24

This document supersedes EN 60268-4:2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60268-4:2014 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

CISPR 22	NOTE	Harmonized as EN 55022.
IEC 60065:2001	NOTE	Harmonized as EN 60065:2002.
IEC 60065/A1:2005	NOTE	Harmonized as EN 60065/A1:2006.
IEC 60065/A2:2010	NOTE	Harmonized as EN 60065/A2:2010.
IEC 60958-4	NOTE	Harmonized as EN 60958-4.
IEC 61000-3-2	NOTE	Harmonized as EN 61000-3-2.
IEC 61000-3-3	NOTE	Harmonized as EN 61000-3-3.
IEC 61606 (Series)	NOTE	Harmonized as EN 61606 (Series).
IEC 61672-1	NOTE	Harmonized as EN 61672-1.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here:

www.cenelec.eu.				
<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60268-1	1985	Sound system equipment Part 1: General	HD 483.1 S2	1989
+A1	1988	,	-	_
+A2	1988		_	_
IEC 60268-2	1987	Sound system equipment Part 2:	HD 483.2 S2	1993
ILO 00200-2	1307	Explanation of general terms and calculation		1990
			1	
	1001	methods		
+A1	1991		-	-
IEC 60268-3	2013	Sound system equipment Part 3:	EN 60268-3	2013
		Amplifiers (GMT)		
IEC 60268-5	2003	Sound system equipment Part 5:	EN 60268-5	2003
		Loudspeakers		
+A1	2007	•	+A1	2009
IEC 60268-11	1987	Sound system equipment Part 11:	HD 483.11 S3	1993
.20 00200 11		Application of connectors for the	115 100.11 00	.000
		interconnection of sound system		
	4000	components		
+A1	1989		-	-
+A2	1991		-	-
IEC 60268-12	1987	Sound system equipment Part 12:	EN 60268-12	1995
		Application of connectors for broadcast and		
		similar use		
+A1	1991		-	_
+A2	1994		+A2	1995
IEC 61000-4-2	2008	Electromagnetic compatibility (EMC) Part	FN 61000-4-2	2009
.200.000 . 2	_000	4-2: Testing and measurement techniques -	2.10.000 . 2	
		Electrostatic discharge immunity test		
IEC 61000 4 2	2006		EN 64000 4.2	2006
IEC 61000-4-3	2006	Electromagnetic compatibility (EMC) Part	EN 61000-4-3	2006
		4-3: Testing and measurement techniques -		
		Radiated, radio-frequency, electromagnetic		
		field immunity test		
IEC 61000-4-4	2012	Electromagnetic compatibility (EMC) Part	EN 61000-4-4	2012
		4-4: Testing and measurement techniques -		
		Electrical fast transient/burst immunity test		
IEC 61000-4-6	2008	Electromagnetic compatibility (EMC) Part	EN 61000-4-6	2009
		4-6: Testing and measurement techniques -		
		Immunity to conducted disturbances,		
		induced by radio-frequency fields		
IEC 64000 4.0	2000		EN 64000 4 0	2010
IEC 61000-4-8	2009	Electromagnetic compatibility (EMC) Part	EN 01000-4-8	2010
		4-8: Testing and measurement techniques -		
		Power frequency magnetic field immunity		
		test		

IEC 61000-4-16	-	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz		-
IEC 61000-4-17	1999	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	-	-
+A1	2001		+A1	2004
+A2	2008		+A2	2009
IEC 61260-1	2014	Electroacoustics - Octave-band and fractional-octave-band filters Part 1: Specifications	EN 61260-1	2014
IEC 61938	2013	Multimedia systems - Guide to the recommended characteristics of analogue interfaces to achieve interoperability	EN 61938	2013
CISPR 35	-	Electromagnetic compatibility of multimedia equipment - Immunity requirements	-	-
ITU-T	1996	Artificial mouth	-	_
Recommendation P.51				
EN 55103-2	2009	Electromagnetic compatibility – Product family standard for audio, video, audio-visua and entertainment lighting control apparatus for professional use – Part 2: Immunity		-
EN 300 422-2 V1.3.	12011	Electromagnetic compatibility and radio spectrum matters (ERM) – Wireless microphones in the 25 MHz to 3 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive	-	-



IEC 60268-4

Edition 5.0 2014-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Sound system equipment – Part 4: Microphones

Équipements pour systèmes électroacoustiques – Partie 4: Microphones





THIS PUBLICATION IS COPYRIGHT PROTECTED Copyright © 2014 IEC, Geneva, Switzerland

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 IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'IEC ou du Comité national de l'IEC du pays du demandeur. Si vous avez des questions sur le copyright de l'IEC ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de l'IEC de votre pays de résidence.

IEC Central Office Tel.: +41 22 919 02 11 3, rue de Varembé Fax: +41 22 919 03 00

CH-1211 Geneva 20 info@iec.ch Switzerland www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

IEC Catalogue - webstore.iec.ch/catalogue

The stand-alone application for consulting the entire bibliographical information on IEC International Standards, Technical Specifications, Technical Reports and other documents. Available for PC, Mac OS, Android Tablets and iPad

IEC publications search - www.iec.ch/searchpub

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee,...). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and also once a month by email.

Electropedia - www.electropedia.org

The world's leading online dictionary of electronic and electrical terms containing more than 30 000 terms and definitions in English and French, with equivalent terms in 14 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC Glossary - std.iec.ch/glossary

More than 55 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

IEC Customer Service Centre - webstore.iec.ch/csc

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: csc@iec.ch.

A propos de l'IEC

La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

A propos des publications IEC

Le contenu technique des publications IEC est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

Catalogue IEC - webstore.iec.ch/catalogue

Application autonome pour consulter tous les renseignements bibliographiques sur les Normes internationales, Spécifications techniques, Rapports techniques et autres documents de l'IEC. Disponible pour PC, Mac OS, tablettes Android et iPad.

Recherche de publications IEC - www.iec.ch/searchpub

La recherche avancée permet de trouver des publications IEC en utilisant différents critères (numéro de référence, texte, comité d'études,...). Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

IEC Just Published - webstore.iec.ch/justpublished

Restez informé sur les nouvelles publications IEC. Just Published détaille les nouvelles publications parues. Disponible en ligne et aussi une fois par mois par email.

Electropedia - www.electropedia.org

Le premier dictionnaire en ligne de termes électroniques et électriques. Il contient plus de 30 000 termes et définitions en anglais et en français, ainsi que les termes équivalents dans 14 langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (IEV) en ligne.

Glossaire IEC - std.iec.ch/glossary

Plus de 55 000 entrées terminologiques électrotechniques, en anglais et en français, extraites des articles Termes et Définitions des publications IEC parues depuis 2002. Plus certaines entrées antérieures extraites des publications des CE 37, 77, 86 et CISPR de l'IEC.

Service Clients - webstore.iec.ch/csc

Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: csc@iec.ch.



IEC 60268-4

Edition 5.0 2014-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Sound system equipment – Part 4: Microphones

Équipements pour systèmes électroacoustiques – Partie 4: Microphones

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE CODE PRIX

ICS 33.160.50 ISBN 978-2-8322-1586-9

Warning! Make sure that you obtained this publication from an authorized distributor.

Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

CONTENTS

F	DREWO)RD	6
1	Scop	pe	8
2	Norm	native references	8
3	Term	ns and definitions	9
4		eral conditions	
•	4.1	General	
	4.2	Measurement conditions	
	4.2.1		
	4.2.2		
5		cular conditions	
Ū	5.1	Pre-conditioning	
	5.2	Sound source	
	5.3	Measurement of sound pressure	
	5.4	Voltage measuring system	
	5.5	Acoustical environment	
	5.5.1		
	5.5.2		
	5.5.3		
	5.5.4		
	5.6	Methods of measuring frequency response	
	5.6.1		
	5.6.2		
	5.7	Overall accuracy	16
	5.8	Graphical presentation of results	16
6	Туре	e description (acoustical behaviour)	16
	6.1	Principle of the transducer	16
	6.2	Type of microphone	
	6.3	Type of directional response characteristics	
	6.4	Application profile	
7	Term	ninals and controls	
	7.1	Marking	17
	7.2	Connectors and electrical interface values	
8	Refe	rence point and axis	
	8.1	Reference point	
	8.2	Reference axis	
9	-	d power supply	
_	9.1	Characteristics to be specified	
	9.2	Method of measurement	
10	-	trical impedance	
	10.1	Internal impedance	
	10.1	·	
	10.1.2 Methods of measurement		
	10.1.	Rated impedance	
	10.2	Rated minimum permitted load impedance	
	10.5	nated minimum permitted load impedance	ı છ

11	Sens	itivity	/	19
	11.1	Gen	eral	19
	11.2	Sen	sitivities with respect to acoustical environment	20
	11.2.	1	Free-field sensitivity	20
	11.2.	2	Diffuse-field sensitivity	
	11.2.	3	Close-talking or near-field sensitivity	21
	11.2.	4	Pressure sensitivity	
	11.3	Rate	ed sensitivity	
12			·	
	12.1		quency response	
	12.1.		Characteristic to be specified	
	12.1.		Method of measurement	
	12.1.		Graphical presentation of results	
			ctive frequency range	
	12.2.		Characteristic to be specified	
	12.2.		Method of measurement	
13		_	al characteristics	
	13.1		ctional pattern	
	13.1.		Characteristic to be specified	
	13.1.		Methods of measurement	
	13.1.		Graphical presentation of results	
			ctivity index	
	13.2.		Characteristic to be specified	
	13.2.		Method of measurement	
14	_		non-linearity	
14	-		•	
	14.1		eral	
	14.2		Il harmonic distortion	
	14.2.		Characteristic to be specified	
	14.2.	_	Method of measurement	
			monic distortion of the n^{th} order $(n = 2, 3,)$	
	14.3.		Characteristic to be specified	
	14.3.	_	Method of measurement	
	14.4		erence frequency distortion of second order	
	14.4.	-	Characteristic to be specified	
	14.4.	_	Method of measurement	
15		•	haracteristics	
	15.1		ed maximum permissible peak sound pressure	
	15.2		rload sound pressure	
	15.2.		Characteristic to be specified	
	15.2.	_	Method of measurement	
16	Balar	nce		28
	16.1		nce of the microphone output	
	16.2		nce under working conditions	
17	Equiv	valen	t sound pressure level due to inherent noise	29
	17.1	Cha	racteristic to be specified	29
	17.2	Metl	hod of measurement	29
18	Ambi	ent c	onditions	30
	18.1	Gen	eral	30

- 4 - IEC 60268-4:2014 © IEC 2014

	18.2	Pressure range	30
	18.3	Temperature range	30
	18.4	Relative humidity range	30
19	Exter	nal influences	30
	19.1	General	30
	19.1.	1 Specification and methods of measurement	30
	19.1.	2 Other external interferences	31
	19.2	Equivalent sound pressure due to mechanical vibration	31
	19.2.	1 Characteristic to be specified	31
	19.2.	2 Method of measurement	31
	19.3	Equivalent sound pressure due to wind	31
	19.3.	1 Characteristic to be specified	31
	19.3.	2 Method of measurement	31
	19.4	Transient equivalent sound pressure due to "pop" effect	34
	19.4.	1 Characteristic to be specified	34
	19.4.	2 Method of measurement	36
20	Elect	romagnetic compatibility (EMC)	36
	20.1	Regulatory requirements	36
	20.2	Requirements for preserving programme quality	
	20.3	Performance criteria	
	20.3.	1 Criterion A	38
	20.3.		
	20.4	Testing for immunity to disturbances in the presence of acoustical noise	
	20.5	Immunity to frequency-modulated radiated disturbances	
	20.6	Immunity to magnetic fields	
	20.7	Immunity to ripple on d.c. power supply	
	20.8	Permanent magnetic field	
	20.9	Evaluation and reporting of the test results	
21	Physi	ical characteristics	40
	21.1	Dimensions	40
		Weight	
		Cables and connectors	
22		sification of the characteristics to be specified	
		normative) Additional characteristics	
١,	A.1		
	A. 1 A. 1. 1	Characteristic sensitivity for speech	
	A.1.1 A.1.2		
		Method of measurement	
	A.2 A.2.1		
	A.2.2		
	A.3	Noise-cancelling index	
	A.3.1	•	
	A.3.2		
	A.4	Special characteristics for stereo microphones	
	A.4.1		
	A.4.2	(g)	
۸	A.4.3		
٦r	mex R (informative) Sound insulation device	46

- 5 -

IEC 60268-4:2014 © IEC 2014

Annex C (informative) Simplified procedure for "pop" measurements47 C.1 General 47 C.2C.3 Measurement procedure47 C.4 Annex D (informative) Recommendations for professional digital microphones50 General 50 D.1 D.2 Bibliography......53 Figure 5 – Electrical and mechanical set-up for the measuring of the "pop" effect35 Figure B.1 – Sound insulation device46 Figure C.1 – Measurement set-up......49 Table 1 – Reverberation time of the empty room......14 Table A.1 – Speech power weighting factor at octave-band centre frequencies......43 Table D.1 – Classification of the characteristics recommended to be specified50

- 6 **-**

IEC 60268-4:2014 © IEC 2014

INTERNATIONAL ELECTROTECHNICAL COMMISSION

SOUND SYSTEM EQUIPMENT -

Part 4: Microphones

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60268-4 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

This fifth edition cancels and replaces the fourth edition published in 2010, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- clarification of Table 5 of classification of characteristics:
- clarification of graphical representation;
- clarification of environmental influences;
- rewritten clause for EMC;
- tolerances and more specific values for noise measurements;

IEC 60268-4:2014 © IEC 2014

-7 -

 inclusion of near-field response for sound source-to-microphone distances of the order of 30 cm.

The text of this standard is based on the following documents:

CDV	Report on voting
100/2116/CDV	100/2186/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60268 series, under the general title *Sound system equipment*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- · replaced by a revised edition, or
- amended.

- 8 -

IEC 60268-4:2014 © IEC 2014

SOUND SYSTEM EQUIPMENT -

Part 4: Microphones

1 Scope

This part of IEC 60268 specifies methods of measurement for the electrical impedance, sensitivity, directional response pattern, dynamic range and external influences of sound system microphones, and also details the characteristics to be specified by the manufacturer.

It applies to sound system microphones for all applications for speech and music. It does not apply to measurement microphones, but it does apply to each audio channel of microphones having more than one channel, for example for stereo or similar use. It is also applicable to flush-mounted microphones and to the analogue characteristics of microphones with digital audio output.

For the purposes of this International Standard, a microphone includes all such devices as transformers, pre-amplifiers, or other elements that form an integral part of the microphone, up to the output terminals specified by the manufacturer.

The major characteristics of a microphone are considered in Clauses 6 to 21. Additional characteristics are considered in Annex A, Annex C and Annex D.

NOTE The characteristics specified in this standard do not completely describe the subjective response of the microphone. Further work is necessary to find new definitions and measurement procedures for a later replacement by objective characteristics of at least some of the subjective descriptions used to describe microphone performance.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CISPR 35:-, Electromagnetic compatibility of multimedia equipment – Immunity requirements¹

IEC 60268-1:1985, Sound system equipment – Part 1: General

Amendment 1:1988 Amendment 2:1988

IEC 60268-2:1987, Sound system equipment – Part 2: Explanation of general terms and calculation methods

Amendment 1:1991

IEC 60268-3:2013, Sound system equipment – Part 3: Amplifiers

IEC 60268-5:2003, Sound system equipment – Part 5: Loudspeakers

Amendment 1:2007 Amendment 1:2007

1 To be published.

_



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation