



SLOVENSKI STANDARD
SIST EN 61988-2-5:2012

01-oktober-2012

Plošče s plazemskimi prikazovalniki - 2-5. del: Merilne metode - Akustični šum

Plasma Display Panels - Part 2-5: Measuring methods - Acoustic noise

Plasmabildschirme - Teil 2-5: Messverfahren - Störgeräusche

Panneaux d'affichage à plasma - Partie 2-5 : Méthodes de mesure - Bruit acoustique

Ta slovenski standard je istoveten z: EN 61988-2-5:2012

[SIST EN 61988-2-5:2012](https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-eb87090d3045/sist-en-61988-2-5-2012)

[https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-
eb87090d3045/sist-en-61988-2-5-2012](https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-eb87090d3045/sist-en-61988-2-5-2012)

ICS:

31.120	Elektronske prikazovalne naprave	Electronic display devices
--------	-------------------------------------	----------------------------

SIST EN 61988-2-5:2012

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61988-2-5:2012

<https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-eb87090d3045/sist-en-61988-2-5-2012>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61988-2-5

August 2012

ICS 31.260

English version

**Plasma display panels -
Part 2-5: Measuring methods -
Acoustic noise
(IEC 61988-2-5:2012)**

Panneaux d'affichage à plasma -
Partie 2-5 : Méthodes de mesure -
Bruit acoustique
(CEI 61988-2-5:2012)

Plasmabildschirme -
Teil 2-5: Messverfahren - Störgeräusche
(IEC 61988-2-5:2012)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This European Standard was approved by CENELEC on 2012-06-19. 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.

<https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-4d3790617428/iec-61988-2-5-2012>
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.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 110/355/FDIS, future edition 1 of IEC 61988-2-5, prepared by IEC/TC 110 "Electronic display devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61988-2-5:2012.

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) 2013-03-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-19

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 61988-2-5:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61988-3-1 NOTE Harmonised as EN 61988-3-1.

[SIST EN 61988-2-5:2012](https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-eb87090d3045/sist-en-61988-2-5-2012)

<https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-eb87090d3045/sist-en-61988-2-5-2012>

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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	Series	International Electrotechnical Vocabulary (IEV)	-	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 61672-1	-	Electroacoustics - Sound level meters - Part 1: Specifications	EN 61672-1	-
IEC 61988-1	-	Plasma display panels - Part 1: Terminology and letter symbols	EN 61988-1	-
IEC 61988-2-1	-	Plasma display panels - Part 2-1: Measuring methods - Optical and optoelectrical	EN 61988-2-1	-
IEC 61988-4	-	Plasma display Panels - Part 4: Climatic and mechanical testing methods	EN 61988-4	-
ISO 7574-1	-	Acoustics - Statistical methods for determining and verifying stated noise emission values of machinery and equipment - Part 1: General considerations and definitions	EN 27574-1	-

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61988-2-5:2012

<https://standards.iteh.ai/catalog/standards/sist/5e5f133f-4ed4-4e00-be6d-eb87090d3045/sist-en-61988-2-5-2012>



IEC 61988-2-5

Edition 1.0 2012-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Plasma display panels – Part 2-5: Measuring methods – Acoustic noise
 iTeh STANDARD PREVIEW
 (standards.iteh.ai)

Panneaux d'affichage à plasma – Partie 2-5: Méthodes de mesure – Bruit acoustique
 SIST EN 61988-2-5:2012
 https://standards.iteh.ai/catalog/standards/sist-en-61988-2-5-2012/4ed4-4e00-be6d-
 eb87090d3045/sist-en-61988-2-5-2012

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX



ICS 31.260

ISBN 978-2-83220-089-6

**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

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 Structure of measuring equipment	6
5 Standard measuring conditions.....	6
6 Measuring method	6
6.1 Purpose	6
6.2 Measuring equipment	6
6.2.1 Equipment list.....	6
6.2.2 Anechoic chamber	6
6.2.3 Silent room	6
6.2.4 Sound level meter.....	7
6.3 Measuring conditions	7
6.3.1 Layout	7
6.3.2 Standard measuring distance	7
6.3.3 Measuring point.....	7
6.3.4 Input video signal	7
6.3.5 Warm-up conditions.....	7
6.3.6 Measuring frequency range	8
6.3.7 Measuring bandwidth.....	9
6.3.8 Weighting filter	9
6.4 Calculation of overall acoustic noise level	9
6.5 Measurement procedure.....	9
6.6 Measurement report	10
Bibliography.....	11
Figure 1 – Setting of measuring equipment.....	8
Figure 2 – Measuring point	8
Table 1 – Example of acoustic noise measurement result	10

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PLASMA DISPLAY PANELS –**Part 2-5: Measuring methods –
Acoustic noise**

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 61988-2-5 has been prepared by IEC technical committee 110: Electronic display devices.

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

FDIS	Report on voting
110/355/FDIS	110/373/RVD

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 the parts in the IEC 61988 series, published under the general title *Plasma display panels*, can be found on the IEC website.