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Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement - Amendment A1 (CISPR 11:1997/A1:1999)

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English version

**Industrial, scientific and medical (ISM) radio-frequency equipment  
Radio disturbance characteristics - Limits and methods of measurement  
(CISPR 11:1997/A1:1999)**

Appareils industriels, scientifiques et médicaux (ISM) à fréquence radioélectrique - Caractéristiques de perturbations radioélectriques  
Limites et méthodes de mesure  
(CISPR 11:1997/A1:1999)

Industrielle, wissenschaftliche und medizinische Hochfrequenzgeräten (ISM-Geräten) - Funkstörungen  
Grenzwerte und Meßverfahren  
(CISPR 11:1997/A1:1999)

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This amendment A1 modifies the European Standard EN 55011:1998; it was approved by CENELEC on 1999-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 Central Secretariat or to any CENELEC member.

This amendment 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

## CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

## Foreword

The text of document CISPR/B/222/FDIS, future amendment 1 to CISPR 11, prepared by CISPR SC B, Interference relating to industrial, scientific and medical radio-frequency apparatus, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC with some common modifications as amendment A1 to EN 55011:1998 on 1999-08-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2000-05-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2002-08-01

Annexes designated "normative" are part of the body of the standard.  
In this standard, annex ZA is normative.  
Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of amendment 1:1999 to the International Standard CISPR 11:1997 was approved by CENELEC as an amendment to the European Standard with agreed common modifications as given below.

[SIST EN 55011:2000/A1:2000](https://standards.iteh.ai/catalog/standards/sist/28e5fe44-a4a7-44a3-8327-c9e01d12a91b/sist-en-55011-2000-a1-2000)

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#### COMMON MODIFICATIONS

- |          |  |
|----------|--|
| Table 5  | <b>Delete</b> "(40) <sup>1)</sup> " and "(60) <sup>1)</sup> " and the corresponding note 1). |
| Table 8  | <b>Delete</b> note 1.  |
| Table 9  | <b>Delete</b> note 1.  |
| Table 10 | <b>Delete</b> note 1.  |
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**Annex ZA** (normative)

**Normative references to international publications  
with their corresponding European publications**

**Addition:**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60705	1999	Household microwave ovens - Methods for measuring performance	EN 60705	1999

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COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

CISPR  
11

1997

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

AMENDEMENT 1  
AMENDMENT 1  
1999-05

COMITÉ INTERNATIONAL SPÉCIAL DES PERTURBATIONS RADIOÉLECTRIQUES  
INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

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Amendement 1

**Appareils industriels, scientifiques et médicaux  
(ISM) à fréquence radioélectrique –  
Caractéristiques de perturbations  
électromagnétiques –  
Limites et méthodes de mesure**

Amendment 1

**Industrial, scientific and medical (ISM)  
radio-frequency equipment –  
Electromagnetic disturbance characteristics –  
Limits and methods of measurement**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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For price, see current catalogue*

## FOREWORD

This amendment has been prepared by CISPR subcommittee B: Interference relating to industrial, scientific and medical (ISM) radio-frequency apparatus.

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

FDIS	Report on voting
CISPR/B/222/FDIS	CISPR/B/228/RVD

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

Page 9

### 1.1 Scope and object

*Replace the last sentence of this subclause by the following:*

Requirements for ISM lighting apparatus operating in the ISM frequency bands of 915 MHz (only allowed in region 2 as defined by the ITU Radio Regulations) 2,45 GHz and 5,8 GHz are contained in this standard.

Requirements for other types of lighting apparatus are covered in CISPR 15.

### 1.2 Normative references

*Add, in the existing list, the title of the following standard:*

IEC 60705:1999, *Household microwave ovens – Methods for measuring performance*

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## 5 Limits of electromagnetic disturbances

Add, before subclause 5.1, the following new text:

For ISM lighting devices operating in the ISM frequency bands 2,45 GHz and 5,8 GHz (and 915 MHz for Region 2 as defined by the ITU Radio Regulations), the limits to be applied are those for class B, group 2 ISM equipment.

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### 5.2.2 Frequency band 150 kHz to 1 GHz

Add, at the end of the subclause, before table 3, the following new text:

In certain circumstances (see 7.1.3), class A, group 2 equipment may be measured on a test site at distances between 10 m and 30 m, and class B, group 1 or 2 equipment at distances between 3 m and 10 m. In case of dispute class A, group 2 equipment shall be measured at a distance of 30 m; class B, group 1 or group 2 equipment (as well as class A, group 1 equipment) shall be measured at a distance of 10 m.

**Table 3 – Electromagnetic radiation disturbance limits for group 1 equipment**

Replace the text of this table by the following new text:

Frequency band	Measured on a test site		Measured <i>in situ</i>
	Group 1, class A 10 m measurement distance	Group 1, class B 10 m measurement distance	Group 1, class A Limits with measuring distance 30 m from exterior wall outside the building in which the equipment is situated
MHz	dB( $\mu$ V/m)	dB( $\mu$ V/m)	dB( $\mu$ V/m)
0,15 – 30	Under consideration	Under consideration	Under consideration
30 – 230	40	30	30
230 – 1 000	47	37	37

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