
Information technology equipment - Immunity characteristics - Limits and methods of measurement - Amendment A2 (CISPR 24:1997/A2:2002)

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EUROPEAN STANDARD

EN 55024/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2003

ICS 33.100.20

English version

**Information technology equipment -
Immunity characteristics -
Limits and methods of measurement
(CISPR 24:1997/A2:2002)**

Appareils de traitement de l'information -
Caractéristiques d'immunité -
Limites et méthodes de mesure
(CISPR 24:1997/A2:2002)

Einrichtungen der Informationstechnik -
Störfestigkeitseigenschaften -
Grenzwerte und Messverfahren
(CISPR 24:1997/A2:2002)

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This amendment A2 modifies the European Standard EN 55024:1998; it was approved by CENELEC on 2002-12-01. 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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/I/42/FDIS, future amendment 2 to CISPR 24:1997, prepared by CISPR SC I, Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 55024:1998 on 2002-12-01.

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) 2003-09-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2005-12-01

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.

Endorsement notice

The text of amendment 2:2002 to the International Standard CISPR 24:1997 was approved by CENELEC as an amendment to the European Standard without any modification.

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Annex ZA
(normative)**Normative references to international publications
with their corresponding European publications**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
Add: CISPR 20	2002	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement	EN 55020	2002

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COMMISSION
ÉLECTROTECHNIQUE
INTERNATIONALE

CISPR
24

1997

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

AMENDEMENT 2
AMENDMENT 2
2002-10

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

Amendement 2

**Appareils de traitement de l'information –
Caractéristiques d'immunité –
Limites et méthodes de mesure**

Amendment 2

**Information technology equipment –
Immunity characteristics –
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Commission Electrotechnique Internationale
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Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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*Pour prix, voir catalogue en vigueur
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FOREWORD

This amendment has been prepared by CISPR subcommittee I: Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers.

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

FDIS	Report on voting
CISPR/ I/42/FDIS	CISPR/I/60/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.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2004. At this date, the publication will be

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

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2 Normative references

Add, to the existing list, the title of the following standard:

CISPR 20:2002, *Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement*

Page 11

3 Definitions iTeh STANDARD PREVIEW

Add, after definition 3.17, on page 15, the following new definition:

3.18

multifunction equipment

information technology equipment in which two or more functions subject to this standard and/or to other standards are provided in the same unit

NOTE Examples of information technology equipment include

- a personal computer provided with a telecommunication function and/or broadcast reception function;
- a personal computer provided with a measuring function, etc.

5 Applicability

Add, after the last paragraph, the following new paragraphs:

Multifunction equipment which is subjected simultaneously to different clauses of this standard and/or other standards shall be tested with each function operated in isolation, if this can be achieved without modifying the equipment internally. The equipment thus tested shall be deemed to have complied with the requirements of all clauses/standards when each function has satisfied the requirements of the relevant clause/standard. For example, a personal computer with a broadcast reception function shall be tested with the broadcast reception function inactivated according to CISPR 24 and then tested with only the broadcast reception function activated according to CISPR 20, if the equipment can operate each function in isolation under normal operation.

For equipment which it is not practical to test with each function operated in isolation, or where the isolation of a particular function would result in the equipment being unable to fulfil its primary function, or where the simultaneous operation of several functions would result in saving measurement time, the equipment shall be deemed to have complied if it meets the provisions of the relevant clause/standard with the necessary functions operated. For example, if a personal computer with a broadcast reception function cannot operate the broadcast reception function in isolation from the computing function, the personal computer may be tested with the computing function and broadcast reception function activated according to CISPR 24 and CISPR 20 with respect to these requirements.

Where an allowance is made excluding specific ports or frequencies or functions in a standard because of different test specification and/or test set-up and/or performance criterion, the allowance may be made when relevant functions within multifunction equipment are tested against a different standard (e.g. excluding of the application of table 2 to an antenna port or excluding of the evaluation of the broadcast function during a measurement of equipment containing the broadcast reception function according to CISPR 24).

6 Conditions during testing

Add, after 6.2, on page 23, the following new subclause:

6.3 Equipment set-up

There are several specific test set-ups of ITE for immunity testing, for example test set-up for measuring the demodulated sound pressure level (spl) and the demodulated differential mode signal of telecommunications terminal equipment. In those cases the EUT is recommended to be configured and set up in accordance with Figures A.1 to A.8 of Annex A.

Figures A.1 to A.8 give examples of specific test set-ups appropriate for a small key telephone system. This type of system will typically consist of a main EUT (M-EUT) and a sub-EUT (S-EUT, such as a telephone terminal). The intention here is to test these two parts of the EUT sequentially.