



SLOVENSKI STANDARD
SIST EN 55013:1995/A14:2000
01-april-2000

Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment - Amendment A14

Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment

Grenzwerte und Meßverfahren für die Funkstöreigenschaften von Rundfunkempfängern und verwandten Geräten der Unterhaltungselektronik

Limites et méthodes de mesure des caractéristiques de perturbations électromagnétiques des récepteurs de radiodiffusion et des appareils associés

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Ta slovenski standard je istoveten z: EN 55013:1990/A14:1999

ICS:

33.100.99	Drugi vidiki v zvezi z EMC	Other aspects related to EMC
33.160.20	Radijski sprejemniki	Radio receivers

SIST EN 55013:1995/A14:2000 **en**

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EUROPEAN STANDARD

EN 55013/A14

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1999

ICS 33.100; 33.160.20; 33.160.40
UDC 621.396.62:621.391.8:621.317

English version

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This amendment A14 modifies the European Standard EN 55013:1990; it was approved by CENELEC on 1998-08-01. 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

Page 2
EN 55013:1990/A14:1999

Foreword

This amendment was prepared by SC 210A, EMC Products, of Technical Committee CENELEC TC 210, EMC.

The text of the draft was submitted to the formal vote and was approved by CENELEC as amendment A14 to EN 55013:1990 on 1998-08-01.

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 endorsed (dop) 1999-12-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2001-08-01

Reference documents

Add:

EN 55011 1998 Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement

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2 Definitions

2.1 Add:

It may also concern digital apparatus (with digital incoming signals) or apparatus with digital processing (of digital or analogue incoming signals).

2.2 Add:

It may also concern digital apparatus (with digital incoming signals) or apparatus with digital processing (of digital or analogue incoming signals).

2.3 In the first paragraph, **add** before electronic organs: "infrared devices".

3 Limits of electromagnetic disturbance

Replace table 3 of EN 55013:1990/A12:1994 by:

Table 3A: Limits of radiated disturbances

Equipment type	Source	Frequency MHz	Limit value	
			Quasi peak in	dB(μ V/m) or dB(pW)
Television and VCR with channel frequency ≤ 300 MHz	Local-oscillator	80 to 300	Fundamental	57
		300 to 1000	Harmonics	52
	Other	80 to 230	Harmonics	56
		230 to 1000		40 ³⁾
Television and VCR with channel frequency $300 \text{ MHz} < f_c < 1000 \text{ MHz}$	Local-oscillator	80 to 300	Fundamental	56
		300 to 1000	Harmonics	52
	Other	80 to 230	Harmonics	56
		230 to 1000		40 ³⁾
Television and sound receivers for broadcast satellite transmission: tuner units at the first IF ²⁾	Local-oscillator	1000 to 3000	Fundamental	57 ¹⁾
		3000 to 18000		u.c.
	Other	1000 to 3000	Harmonics	57 ¹⁾
		3000 to 18000		u.c.
Frequency modulation sound receivers	Local-oscillator	80 to 300	Fundamental	60
		300 to 1000	Harmonics	52
	Other	80 to 230	Harmonics	56
		230 to 1000		40 ³⁾
Infrared remote controls	Other	80 to 230		40 ³⁾
		230 to 1000		47
LW, MW, SW sound receivers		u.c.		u.c.

u.c. = under consideration

1) Limits for frequencies exceeding 1000 MHz are in dB(pW). The limit 57 dB(pW) (peak value 1 MHz resolution bandwidth) is in consideration to be replaced by 43 dB(pW).

2) For tuner units "antenna terminals" means "first IF input terminals".

3) The values 40 and 47 dB(μ V/m) are relaxed to 52 dB(μ V/m) (except for 121,5 Mhz and 243 MHz) until 3 years after dop.

Page 4

EN 55013:1990/A14:1999

3.4 Add:

Sound broadcast receiver cards and TV broadcast receiver cards to be inserted in PCs, so-called PC tuner cards shall fulfil the requirements of Table 3B.

In the case of PC tuner cards, separately marketed for incorporation in diverse host units (e.g. PCs), the card shall be tested in at least one appropriate representative host unit of the choice of the card manufacturer.

Measurements are carried out with the tuner card inserted in a personal computer, switched on and the antenna input connector terminated with a non-radiating dummy load.

Antenna terminal disturbance is measured according to 5.3

Table 3B: Limits of radiated disturbances of tuner cards inserted in PCs at a measurement distance of 3 m

Frequency range MHz	Quasi-peak limits dB(μ V/m)
30 to 230	40
230 to 1000	47

Notes:

1. The lower limit shall apply at the transition frequency.
2. Additional provisions may be required for cases where interference occurs.

3.6 (see EN 55013:1990/A12:1994) **Replace** the title of the subclause by:

3.6 Wanted signal and disturbance voltage at the RF output terminals of equipment with incorporated RF video modulator

In the first paragraph, **replace** "video recorders" by "equipment with RF video modulator incorporated (for instance VCRs, decoders)".

In the title of table 4A, **replace** "video recorders" by "equipment with RF video modulator incorporated".

Add in the first column of table 4A " , decoders etc."

5 Methods of measurement

5.1 Replace "5.1 General" by:

5.1 General

For equipment for which the wanted signals are not explicitly described in this standard, the nominal signals as specified by the manufacturer shall be applied during the tests. (This is for instance the case with digital audio and video broadcast receivers, CD players, decoders, etc.). The manufacturer shall specify in his technical report which input signal was applied during the test.

5.1.1 Add:

- f) For infrared remote controls: a permanent transmission of a typical control function. An infrared remote control will be considered as a part of the main unit and be tested together.
- g) For infrared headphones: a 1kHz audio signal.

5.4 Add a new subclause:

5.4.6 If at certain frequencies the ambient signal field strength is high at the position of the receiving antenna, one of the following methods may be used to show compliance of the EUT:

- a) For small frequency bands with high ambient signals, the disturbance values of the EUT may be interpolated from the adjacent disturbance values.
- b) Another possibility is to use the method described in Annex C of EN 55011.

5.7 (see EN 55013:1990/A12:1994) **Replace** the title of the subclause by:

5.7 Measurement of the wanted signal and disturbance voltage at the RF output terminals of equipment with an RF video modulator incorporated in the frequency range 30 MHz to 1,75 GHz

5.7.1 In the first sentence, **replace** "If a video recorder" by "If an equipment with RF video modulator incorporated".

In the first sentence, **replace** "the video recorder" by "the equipment".

5.7.2 Replace: "video recorder" by "equipment" (twice).

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