SLOVENSKI STANDARD
SIST EN 55032:2015/oprAB:2025

01-februar-2025

Elektromagnetna združljivost večpredstavnostne opreme - Zahteve glede elektromagnetnega sevanja - Dopolnilo AB

Electromagnetic compatibility of multimedia equipment - Emission requirements

Elektromagnetische Verträglichkeit von Multimediageräten und -einrichtungen - Anforderungen an die Störaussendung

Compatibilité électromagnétique des équipements multimédia - Exigences d'émission

Ta slovenski standard je istoveten z: **EN 55032:2015/prAB:2025**

ICS:

33.100.10	Emisija	Emission
33.160.60	Večpredstavni (multimedijski) sistemi in oprema za telekonference	Multimedia systems and teleconferencing equipment

SIST EN 55032:2015/oprAB:2025 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
EN 55032:2015

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January 2025

ICS 33.100.10 -

English Version

Electromagnetic compatibility of multimedia equipment - Emission requirements

Compatibilité électromagnétique des équipements multimédia - Exigences d'émission

Elektromagnetische Verträglichkeit von Multimediageräten und -einrichtungen - Anforderungen an die Störaussendung

This draft amendment prAB, if approved, will modify the European Standard EN 55032:2015; it is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2025-03-28.

It has been drawn up by CLC/TC 210.

If this draft becomes an amendment, 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.

This draft amendment was established by CENELEC 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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 55032:2015/prAB:2025) has been prepared by CLC/TC 210 “Electromagnetic Compatibility (EMC)”.

This document is currently submitted to the Enquiry.

The following dates are proposed:

• latest date by which the existence of this document has to be announced at national level	(doa)	dav + 6 months
• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	dav + 12 months
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	dav + 36 months (to be confirmed or modified when voting)

EN 55032:2015/prAB:2025 introduces modifications to improve legal certainty for citation in the EU Official Journal.

This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

1 Modification to Clause 1, “Scope”

Delete the note.

In six places replace the words “this publication” *with* “this document”.

2 Modification to Clause 2, “Normative references”

Replace all references with:

CISPR 16-1-1:2015,[1] *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus*

CISPR 16-1-2:2014,[2] Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-2: Radio disturbance and immunity measuring apparatus – *Coupling devices for conducted disturbance measurements*

CISPR 16-1-4:2019,[3] *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Antennas and test sites for radiated disturbance measurements*

CISPR 16-1-5:2014,[4] *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-5: Radio disturbance and immunity measuring apparatus – Antenna calibration sites and reference test sites for 5 MHz to 18 GHz*

CISPR 16-1-6:2014,[5] *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-6: Radio disturbance and immunity measuring apparatus – EMC antenna calibration*

CISPR 16-2-1:2014,[6] *Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-1: Methods of measurement of disturbances and immunity – Conducted disturbance measurements*

CISPR 16-2-3:2016,[7] *Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements*

CISPR 16-4-2:2011,[8] *Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modelling – Measurement instrumentation uncertainty*

IEC 61000-4-6:2023, *Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields*

ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories*

3 Modifications to Clause 4, “Classification of equipment”

Replace the fourth paragraph with:

[1] 4th edition (2015). This 4th edition has been replaced in 2019 by a 5th Edition CISPR 16-1-1:2019, Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus. But the listed edition applies, see C.2.2.1.
[2] As impacted by CISPR 16-1-2:2014/AMD1:2017.
[3] As impacted by CISPR 16-1-4:2019/AMD1:2020 and CISPR 16-1-4:2019/AMD2:2023.
[4] As impacted by CISPR 16-1-5:2014/AMD1:2016.
[5] As impacted by CISPR 16-1-6:2014/AMD1:2017 and CISPR 16-1-6:2014/AMD2:2022.
[6] As impacted by CISPR 16-2-1:2014/AMD1:2017.
[7] As impacted by CISPR 16-2-3:2016/AMD1:2019 and CISPR 16-2-3:2016/AMD2:2023.
[8] As impacted by CISPR 16-4-2:2011/AMD1:2014 and CISPR 16-4-2:2011/AMD2:2018.

"The Class B requirements for equipment are intended to offer adequate protection to radio services within the residential environment."

Replace the note with:

"

NOTE Equipment meeting Class A requirements is not intended to offer adequate protection to radio services within a residential environment."

4 Modification to Clause 5, "Requirements"

Replace the words "this publication" *with* "this document".

5 Modifications to subclause 6.1, "General"

In the third paragraph, in two places, replace the words "this publication" with "this document".

Replace the last paragraph with:

"If a single port satisfies the definition of more than one of the types of port defined in this document, it is subject to the requirements for each of the port types that it satisfies. Where a port can support both screened and unscreened cables, the port shall be evaluated with both cable types."

6 Modification to subclause 6.2, "Host systems and modular EUT"

Replace the second, third and fourth paragraphs with the following:

"Self-contained modules intended for use with a host shall be assessed in at least one representative host system. The modules may be internal, mounted, plug-in or external as illustrated in Figure 2. The port(s) of any module being assessed shall be terminated in accordance with Annex D. The functions of the host device that are specific to the module being assessed shall be exercised during the measurements. The host and modules used during measurements shall be listed in the test report.

Modules whose functionality and connectivity allow them to be either, plug-in, internal, mounted and/or external shall be assessed in each of the applicable configurations to find the worst case to be measured.

When the EUT is a host, it shall be configured with modules so that the resulting system is representative of normal use."

7 Modification to subclause 6.3, "Measurement procedure"

Replace the content of the subclause with the following:

"The arrangement for formal measurement shall be representative of a typical arrangement of the EUT, local AE and associated cabling.

The measurement is performed with the EUT and/or AE arranged either as floor-standing equipment, table-top equipment or combinations thereof as defined in D.1.1 and illustrated in Figures D.2 to D.12.

Measurements shall be performed as follows:

— using the relevant measurement methods and procedures given in Table A.1, Table A.8 and Annex C, and the EUT exercised in accordance with Annex B;

— with the EUT, local AE and associated cabling configured and arranged, and with ports loaded as shown in 6.2 and Annex D;

— in accordance with supporting information and clarifications defined elsewhere within this document.

For some products it is not always obvious how the EUT and/or AE should be arranged. This can be due to variations in the configurations of the EUT in practice, physical or practical limitations. Examples of these arrangements include:

— wall, ceiling or rack mounted,

— hand-held,

— body worn.

For example, a video projector can be positioned in various ways with respect to walls, ceiling or the floor of a room. D.1.1 defines the additional information needed to configure the EUT to simulate these types of arrangements.

Prescan measurements may be performed in which the arrangement of the EUT, the arrangement of the local AE and the placement of cables is varied within the range of typical and normal placement to attempt to determine the cable arrangement giving the maximum emission level, as described in Annex D."

8 Modification to Clause 7, "Equipment documentation"

Replace the content of the clause with the following:

"This clause is not used in the European version of this document".

9 Modification to Clause 8, "Applicability"

Delete the second paragraph.

10 Modifications to Clause 9, "Test report"

In the first sentence of the first paragraph, replace

"5.10 of ISO/IEC 17025:2005"

with:

"7.8 of ISO/IEC 17025:2017".

In the last set of bullet points, in the second bullet, delete

"No reporting is required if U_{cispr} is not defined for the relevant measurement type".

11 Modifications to Clause 10, "Compliance with this publication"

Change the title to "Compliance with this document".

Replace the first and second paragraphs with:

"Compliance with this document requires that the EUT satisfies either the Class A or Class B requirements defined in Annex A, as appropriate.

Where this document gives options for measurement methods they are all equivalent and compliance may be shown using any of those measurement methods, together with the specified limits and any relevant restrictions.

NOTE 1 CISPR TR 16-4-5:2006+AMD1:2014+AMD2:2021 contains a methodology to verify equivalence between alternative measurement methods and limits. The analysis in CISPR 16-4-5 makes use of inter-laboratory (round robin) measurement, theoretical calculations, comparisons with other established limits and methods etc.

NOTE 2 In any situation involving re-measurement of the equipment, reproducibility of results is best achieved if the original measurement method is used.

In the fifth paragraph replace the words "this publication" *with* "this document".

Replace the last paragraph with:

"Compliance may be shown by measuring the EUT's emissions when operating its functions simultaneously, individually in turn, or any combination thereof."

12 Modification to Clause 11, "Measurement instrumentation uncertainty"

Replace the content with:

"Instrumentation uncertainty of a measurement shall be calculated as specified in Clauses 5, 7 and 8 of CISPR 16-4-2:2011 and reported as described in Clause 9. However, the disturbance limits specified in this document shall not be modified by the calculated measurement uncertainty when determining compliance with this document."

13 Modifications to Clause A.1, "General"

In paragraph 1 replace the words "this publication" *with* "this document".

In paragraph 5 replace the words "this publication" *with* "this document".

Replace point a) of the second bullet point with:

"a) supply voltage within the rated voltage range of the EUT".

In the next to last bullet point replace the words "this publication" *with* "this document".

14 Modifications to Clause A.2, "Requirements for radiated emissions"

In the first paragraph replace the words "this publication" *with* "this document".

In the footnote replace the words "this publication" *with* "this document".

In Table A.1, replace the text at the bottom of Table A.1 with:

"The arrangement of the EUT is defined within Annex D of CISPR 32 and not that given in subclauses 6.4, 7.3.6, 7.4.2, 7.4.3, 7.5.4 and 7.6.3 of CISPR 16-2-3:2016. Requirements defined within CISPR 16-2-3:2016 that conflict with or are in addition to the requirements of this document shall not be followed."

15 Modifications to subclause A.3, "Requirements for conducted emissions"

In Table A.11 replace the last sentence with:

"Antenna ports that directly connect to an antenna without cable are excluded."

In Table A.12 replace the last sentence with:

"Antenna ports that directly connect to an antenna without cable are excluded."

16 Modification to subclause B.1, "General"

In the fifth paragraph replace the words "this publication" *with* "this document".

17 Modification to subclause B.2.1, "Audio signals"

Replace the content of the subclause with:

"For EUTs that support audio signals, the signal used to exercise the EUT shall be a 1 kHz sinusoidal signal unless an alternative frequency is more appropriate to the operational acoustic frequency range of the EUT. The frequency used shall be recorded in the test report."