

**Audio/video, information and communication
technology equipment - Environmentally conscious
design (IEC 62075:2012)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 62075:2012 sisaldab Euroopa standardi EN 62075:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 62075:2012 consists of the English text of the European standard EN 62075:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English version

**Audio/video, information and communication technology equipment -
Environmentally conscious design
(IEC 62075:2012)**

Equipements relatifs aux technologies de
l'audio/vidéo, de l'information et de la
communication -
Conception éco-environnementale
(CEI 62075:2012)

Audio/Video-, Informations- und
Kommunikationstechnikgeräte –
Umweltbewusstes Design
(IEC 62075:2012)

This European Standard was approved by CENELEC on 2012-10-24. 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.

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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 108/448/CDV, future edition 2 of IEC 62075, prepared by IEC/TC 100, "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62075:2012.

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) 2013-07-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-10-24

This document supersedes EN 62075:2008.

EN 62075:2012 includes the following significant technical changes with respect to EN 62075:2008:

EN 62075:2012 is primarily an editorial revision that adds information related to the modifications noted in certain definitions and updating of regulation references.

NOTE The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

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 62075:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60065	NOTE Harmonized as EN 60065.
IEC 60950-1	NOTE Harmonized as EN 60950-1.
IEC 62018	NOTE Harmonized as EN 62018.
IEC 62430	NOTE Harmonized as EN 62430.
ISO 14001:2004	NOTE Harmonized as EN ISO 14001:2004 (not modified).
ISO 14050	NOTE Harmonized as EN ISO 14050.
ISO 14060:2006	NOTE Harmonized as EN ISO 14060:2006 (not modified).

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>
ISO 3741	-	Acoustics - Determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms	EN ISO 3741	-
ISO 3744	-	Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane	EN ISO 3744	-
ISO 3745	-	Acoustics - Determination of sound power levels of noise sources using sound pressure - Precision methods for anechoic and hemi-anechoic rooms	EN ISO 3745	-
ISO 7779	-	Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment	EN ISO 7779	-
ISO 9296	-	Acoustics - Declared noise emission values of computer and business equipment		-
ISO 11201	-	Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Engineering method in an essentially free field over a reflecting plane	EN ISO 11201	-
ISO 11469	-	Plastics - Generic identification and marking of plastic products	EN ISO 11469	-

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INTRODUCTION

Every **product** has an effect on the **environment**, which may occur at any or all stages of its **life cycle** – raw-material acquisition, manufacture, distribution, use, and disposal. These effects may range from low to significant; they may be short-term or long-term; and they may occur at the local, regional or global level (or a combination thereof).

The interest of customers, users, developers and other stakeholders in **environmental aspects** and effects of **products** is increasing.

Anticipating or identifying the **environmental aspects** of a **product** throughout its **life cycle** may be complex. The **environmental aspects** of a **product** have to be balanced against other factors, such as its intended use, performance, safety and health, cost, marketability, quality and regulatory requirements. It is important to consider the **product** functionality within the context of the system where it will be used.

The process of integrating **environmental aspects** into **product** design and development has to be continuous and flexible, promoting creativity and maximizing innovation and opportunities for environmental improvement. Environmental issues should be addressed in the policies and strategies of the **organization** involved.

Early identification and planning enable **organizations** to make effective decisions about **environmental aspects** that they control. This provides a better understanding of how their decisions will affect **environmental aspects** controlled by others, for example, at the raw-material and **parts** acquisition or **end of life** stages.

The purpose of this document is to help **designers** of **products** in the field of audio/video, information technology and communication technology to appropriately manage related environmental issues within the design process.

This sector specific document takes into account the publication of the second edition of ECMA-341 (2004), recent engineering best practices as well as current market and regulatory environmental **product** requirements.

AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT – ENVIRONMENTALLY CONSCIOUS DESIGN

1 Scope

This International Standard applies to all audio/video, information and communication technology equipment marketed as final **products**, hereafter referred to as **products**.

Although this standard does not explicitly apply to individual components and subassemblies to be incorporated into final **products**, component **manufacturers** also should consider this standard, to enable **manufacturers** using such components to meet the requirements herein.

Only the intended use of **products** as defined by the **manufacturer** is within the scope of this standard.

This standard specifies requirements and recommendations for the design of environmentally sound **products** regarding

- **life cycle** thinking aspects,
- material efficiency,
- **energy efficiency**,
- **consumables** and batteries,
- chemical and noise emissions,
- extension of **product** lifetime,
- **end of life**,
- **hazardous substances/preparations**, and
- **product** packaging.

This standard covers only criteria directly related to the environmental performance of the **product**. Criteria such as safety, ergonomics and electromagnetic compatibility (EMC) are outside the scope of this standard and covered by other standards.

2 Normative references

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.

ISO 3741, *Acoustics – Determination of sound power levels of noise sources using sound pressure – Precision methods for reverberation rooms*

ISO 3744, *Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane*

ISO 3745, *Acoustics – Determination of sound power levels of noise sources using sound pressure – Precision methods for anechoic and hemi-anechoic rooms*

ISO 7779, *Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment*

ISO 9296, *Acoustics – Declared noise emission values of computer and business equipment*

ISO 11201, *Acoustics – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections*

ISO 11469, *Plastics – Generic identification and marking of plastics products*

3 Terms and definitions

For the purpose of this document the following terms and definitions apply.

3.1

chemical emissions

chemical **substances** and particulate matter emitted from a **product** into the air

3.2

consumable

user-replaceable **part** or piece of equipment that **manufacturers** place on the market for direct sale for use in equipment

Note 1 to entry: **Consumables** include, for example, printer cartridges and photographic film, and not **parts** required for repairs or **product** upgrades.

3.3

designer

person responsible for the design and development of a product under the supervision of the manufacturer

Note 1 to entry: See 3.12 for context with **manufacturer**.

3.4

end of life

life cycle stage of a **product** starting when it is removed from a **use stage**

3.5

energy efficiency

a comparative measure of energy required to achieve a particular performance

Note 1 to entry: A more precise definition is not applicable in this context as the output performance largely depends on the specific device.

EXAMPLE For power supplies the **energy efficiency** is defined as the percentage of output power per input power.

3.6

environment

surroundings in which an **organization** operates, including air, water, land, natural resources, flora, fauna, humans and their interrelation

[SOURCE: ISO 14001:2004, 3.5]

3.7

environmental aspect

element of an **organization's** activities, **products** or services that can interact with the **environment**