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KOSMEETILISEL/ESTEETILISEL EESMÄRGIL
KASUTATAVATE MITTELASERVALGUSALLIKAGA
SEADMETE ESMASELE OHUTUSELE JA OLULISTELE
TOIMIMISNÄITAJATELE

Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring, cosmetic and aesthetic use

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN IEC 60601-2-57:2026 sisaldab Euroopa standardi EN IEC 60601-2-57:2026 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.01.2026.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN IEC 60601-2-57:2026 consists of the English text of the European standard EN IEC 60601-2-57:2026.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 23.01.2026.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 11.040.50, 11.040.60

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English Version

Medical electrical equipment - Part 2-57: Particular requirements
for the basic safety and essential performance of non-laser light
source equipment intended for therapeutic, diagnostic,
monitoring, cosmetic and aesthetic use
(IEC 60601-2-57:2023)

Appareils électromédicaux - Partie 2-57: Exigences
particulières pour la sécurité de base et les performances
essentielle des appareils à source de lumière non laser
destinés à des usages thérapeutiques, de diagnostic, de
surveillance, cosmétiques et esthétiques
(IEC 60601-2-57:2023)

Medizinische elektrische Geräte - Teil 2-57: Besondere
Festlegungen für die Sicherheit einschließlich der
wesentlichen Leistungsmerkmale von Geräten mit Nicht-
Laser-Lichtquellen für die Anwendung in der Therapie,
Diagnose, Überwachung und für kosmetische/ästhetische
Zwecke
(IEC 60601-2-57:2023)

This European Standard was approved by CENELEC on 2025-12-17. 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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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

European foreword

The text of document 76/734/FDIS, future edition 2 of IEC 60601-2-57, prepared by TC 76 "Optical radiation safety and laser equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60601-2-57:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-01-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-01-31 document have to be withdrawn

This document supersedes EN 60601-2-57:2011 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

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 EN IEC 60601-2-57:2026/A11:2026.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60601-2-57:2023 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 standard indicated:

- | | | |
|---------------------|------|--|
| IEC 60335-2-113 | NOTE | Approved as EN IEC 60335-2-113 |
| IEC 60335-2-27 | NOTE | Approved as EN 60335-2-27 |
| IEC 60601-2-83:2019 | NOTE | Approved as EN IEC 60601-2-83:2020 (not modified) + A11:2021 |

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Medical electrical equipment –
Part 2-57: Particular requirements for the basic safety and essential performance
of non-laser light source equipment intended for therapeutic, diagnostic,
monitoring, cosmetic and aesthetic use**

**Appareils électromédicaux –
Partie 2-57: Exigences particulières pour la sécurité de base et les performances
essentiels des appareils à source de lumière non laser destinés à des usages
thérapeutiques, de diagnostic, de surveillance, cosmétiques et esthétiques**



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Medical electrical equipment –
Part 2-57: Particular requirements for the basic safety and essential
performance of non-laser light source equipment intended for therapeutic,
diagnostic, monitoring, cosmetic and aesthetic use**

**Appareils électromédicaux –
Partie 2-57: Exigences particulières pour la sécurité de base et les
performances essentielles des appareils à source de lumière non laser destinés
à des usages thérapeutiques, de diagnostic, de surveillance, cosmétiques et
esthétiques**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 11.040.50, 11.040.60

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CONTENTS

FOREWORD.....	3
INTRODUCTION.....	6
201.1 Scope, object and related standards	7
201.2 Normative references.....	9
201.3 Terms and definitions.....	9
201.4 General requirements	12
201.5 General requirements for testing ME EQUIPMENT	13
201.6 Classification of ME EQUIPMENT and ME SYSTEMS.....	13
201.7 ME EQUIPMENT identification, marking and documents	13
201.8 Protection against electrical HAZARDS from ME EQUIPMENT	17
201.9 Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS	18
201.10 Protection against unwanted and excessive radiation HAZARDS	18
201.11 Protection against excessive temperatures and other HAZARDS	21
201.12 Accuracy of controls and instruments and protection against HAZARDOUS outputs	21
201.13 HAZARDOUS SITUATIONS and fault conditions for ME EQUIPMENT	22
201.14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS).....	22
201.15 Construction of ME EQUIPMENT.....	22
201.16 ME SYSTEMS	22
201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	22
Annexes	23
Annex AA (informative) Particular guidance and rationale.....	24
Annex BB (informative) Summary of MANUFACTURER'S requirements	26
Annex CC (informative) Symbols on marking	27
Bibliography.....	28
Index of defined terms used in this document	29
Figure 201.101 – Example of explanatory label for a device with multiple hazard spectral regions	14
Figure 201.102 – Example of explanatory label.....	14
Figure 201.103 – Reproduction of the OPTICAL RADIATION warning symbol (ISO 7010:W027:2011-05)	15
Table 201.104 – Requirements for marking of LS EQUIPMENT according to risk group classification.....	14
Table BB.1 – Summary of MANUFACTURER'S requirements	26
Table CC.1 – Symbols, references and descriptions	27

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEDICAL ELECTRICAL EQUIPMENT –**Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring, cosmetic and aesthetic use**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60601-2-57 has been prepared by IEC technical committee 76: Optical radiation safety and laser equipment. It is an International Standard.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) This edition constitutes a major review of the previous edition and covers the recent development of LS EQUIPMENT. It now includes the RISK GROUP 1C (RG-1C). LS EQUIPMENT of RG-1C incorporates technical means which inhibit emission into free space when the APPLICATOR is not in GOOD CONTACT with the target tissue.

- b) It now excludes LS EQUIPMENT of RG-1 and RG-2 as these are assumed to represent no hazard. RG-1C is only included if the incorporated light source is of RG-3.
- c) It clarifies its relation to the concept of Risk Groups (RGs), as introduced in IEC 62471.
- d) Although the previous edition was applicable to LS EQUIPMENT containing UV sources, more emphasis is given to UV applications of the equipment in this edition.
- e) This edition excludes LS EQUIPMENT which is intended to be used on animals.

The text of this International Standard is based on the following documents:

Draft	Report on voting
76/734/FDIS	76/737/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

In this document, the following print types are used:

- Requirements and definitions: roman type.
- Test specifications: *italic type*.
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In referring to the structure of this document, the term

- "clause" means one of the seventeen numbered divisions within the table of contents, inclusive of all subdivisions (e.g. Clause 7 includes subclauses 7.1, 7.2, etc.);
- "subclause" means a numbered subdivision of a clause (e.g. 7.1, 7.2 and 7.2.1 are all subclauses of Clause 7).

References to clauses within this document are preceded by the term "Clause" followed by the clause number. References to subclauses within this document are by number only.

In this document, the conjunctive "or" is used as an "inclusive or" so a statement is true if any combination of the conditions is true.

The verbal forms used in this document conform to usage described in Clause 7 of the ISO/IEC Directives, Part 2:2021. For the purposes of this document, the auxiliary verb:

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- "should" means that compliance with a requirement or a test is recommended but is not mandatory for compliance with this document;
- "may" is used to describe a permissible way to achieve compliance with a requirement or test.

An asterisk (*) as the first character of a title or at the beginning of a paragraph or table title indicates that there is guidance or rationale related to that item in Annex AA.

A list of all parts of the IEC 60601 series, published under the general title: *Medical electrical equipment*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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

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INTRODUCTION

This document amends and supplements IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020, *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance*.

The requirements of this document should be taken as the minimum to comply with, in order to achieve a reasonable level of safety and reliability during operation and application of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic or aesthetic use.

An asterisk (*) notes clauses for which there is rationale comment in Annex AA. It is considered that knowledge of the reasons for these requirements will facilitate the proper application of this document and be of use in any revision that may be necessitated by changes in clinical practice or as a result of developments in technology.

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MEDICAL ELECTRICAL EQUIPMENT –

Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring, cosmetic and aesthetic use

201.1 Scope, object and related standards

Clause 1 of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 applies, except as follows:

201.1.1 *Scope

Replacement:

This part of IEC 60601-2 applies to BASIC SAFETY and ESSENTIAL PERFORMANCE of equipment incorporating one or more sources of OPTICAL RADIATION in the wavelength range 200 nm to 3 000 nm, with the exception of laser radiation, and intended to create photobiological effects in humans for therapeutic, diagnostic, monitoring, and cosmetic or aesthetic applications; hereafter referred to as light source equipment (LS EQUIPMENT).

This document applies to LS EQUIPMENT of RISK GROUP 1C if the incorporated source of OPTICAL RADIATION is of RG-3, and of Risk Group 3.

NOTE 1 For classification rules for Risk Groups, see 201.6.1.102.

This document does not apply to equipment for sun tanning such as sunlamp products, for ophthalmic instruments, for lighting purposes in medical or cosmetic environments, for photography/video, for equipment which produces visual or non-visual effects such as circadian entrainment, or for infant phototherapy and infant radiant warmers. This document does not apply to sterilization equipment.

This document does not apply to home-use appliances. It does not apply to home light therapy equipment, such as equipment which is intended to be used in the HOME HEALTHCARE ENVIRONMENT and is typically used by a LAY OPERATOR.

NOTE 2 Home-use appliances are covered by IEC 60335-2-113:2016 [1]¹. Appliances for skin exposure to OPTICAL RADIATION, such as sunlamp products, are covered by IEC 60335-2-27 [2]. Home light therapy equipment providing light therapy by means of eye-mediated photobiological effects, which can be visual or non-visual, and skin-mediated photobiological effects, possible applications including pain relief, psoriasis treatment, and treatment of winter depression (SAD), are also covered by IEC 60601-2-83:2019 [3].

NOTE 3 Safety requirements in this document are intended to address only HAZARDS to the eye and superficial tissues including skin or mucosa. As OPTICAL RADIATION does not penetrate more than a few millimetres in tissue, HAZARDS to underlying tissues are not considered.

¹ Numbers in square brackets refer to the Bibliography.

201.1.2 Object

Replacement:

The objects of this document are:

- to establish the risk from OPTICAL RADIATION, specify basic safety and essential performance requirements for LS EQUIPMENT;
- to specify requirements for the MANUFACTURER to supply information and establish procedures so that proper precautions can be adopted;
- to provide warning to individuals of risks associated with accessible OPTICAL RADIATION from LS EQUIPMENT through signs, labels and instructions;
- to reduce the possibility of adverse effects and injuries by minimizing unnecessary accessible OPTICAL RADIATION; to provide means of improved control of the HAZARDS related to OPTICAL RADIATION through engineering controls;
- to specify requirements for protection against other HAZARDS resulting from the operation and use of LS EQUIPMENT.

201.1.3 Collateral standards

Addition:

This document refers to the applicable collateral standards that are listed in Clause 2 of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020.

All collateral standards apply, except IEC 60601-1-11.

201.1.4 Particular standards

Replacement:

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601 1:2005/AMD2:2020 and collateral standards as appropriate for the particular ME EQUIPMENT under consideration, and may add other basic safety and essential performance requirements.

A requirement of a particular standard takes priority over IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020.

The numbering of clauses and subclauses of this document corresponds to that of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 with the prefix "201" (e.g. 201.1 in this document addresses the content of Clause 1 of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020) or applicable collateral standard with the prefix "20x" where x is the final digit(s) of the collateral standard document number (e.g. 202.4 in this document addresses the content of Clause 4 of the IEC 60601-1-2 collateral standard, 203.4 in this document addresses the content of Clause 4 of the IEC 60601-1-3 collateral standard, etc.). The changes to the text of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 are specified by the use of the following words:

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Subclauses, figures or tables which are additional to those of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 are numbered starting from 201.101. However, due to the fact that definitions in IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 are numbered 3.1 through 3.139, additional definitions in this document are numbered beginning from 201.3.201. Additional annexes are lettered AA, BB, etc., and additional items aa), bb), etc.

Subclauses, figures or tables which are additional to those of a collateral standard are numbered starting from 20x, where "x" is the final digit(s) of the collateral standard document number, e.g. 202 for IEC 60601-1-2, 203 for IEC 60601-1-3, etc.

The term "this standard" is used to make reference to IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020, any applicable collateral standards and this document taken together.

Where there is no corresponding clause or subclause in this document, the clause or subclause of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 or applicable collateral standard, although possibly not relevant, applies without modification; where it is intended that any part of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 or applicable collateral standard, although possibly relevant, is not to be applied, a statement to that effect is given in this document.

201.2 Normative references

NOTE Informative references are listed in the Bibliography.

Clause 2 of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 applies, except as follows:

Addition:

IEC 60947-3, *Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units*

IEC 62471, *Photobiological safety of lamps and lamp systems*

ISO 3864-2, *Graphical symbols – Safety colours and safety signs – Part 2: Design principles for product safety labels*

201.3 Terms and definitions

Clause 3 of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 applies, except as follows:

Replacement:

201.3.18

CONTINUOUS OPERATION

operation with a continuous OPTICAL RADIATION output for a duration equal to or greater than 0,25 s for wavelengths in the range 400 nm to 700 nm and 10 s for all other wavelengths