
Medicinska električna oprema - 2-75. del: Posebne zahteve za osnovno varnost in bistvene lastnosti za fotodinamično terapijo in fotodinamično diagnostično opremo (IEC 60601-2-75:2017)

Medical Electrical Equipment - Part 2-75: Particular requirements for the basic safety and essential performance of photodynamic therapy and photodynamic diagnosis equipment (IEC 60601-2-75:2017)

Medizinische elektrische Geräte - Teil 2-75: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von photodynamischen Therapie- und photodynamischen Diagnosegeräten (IEC 60601-2-75:2017)

[SIST EN IEC 60601-2-75:2019](https://standards.iteh.ai/catalog/standards/sist/c8e5a7a3-d334-420e-8661-741281a60780/sist-en-iec-60601-2-75-2019)

Appareils électromédicaux - Partie 2-75 Exigences particulières pour la sécurité de base et les performances essentielles des appareils de thérapie photodynamique et de diagnostic photodynamique (IEC 60601-2-75:2017)

Ta slovenski standard je istoveten z: EN IEC 60601-2-75:2019

ICS:

11.040.55 Diagnostična oprema Diagnostic equipment

SIST EN IEC 60601-2-75:2019 en

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EUROPEAN STANDARD

EN IEC 60601-2-75

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2019

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English Version

**Medical Electrical Equipment - Part 2-75: Particular requirements
for the basic safety and essential performance of photodynamic
therapy and photodynamic diagnosis equipment
(IEC 60601-2-75:2017)**

Appareils électromédicaux – Partie 2-75: Exigences
particulières pour la sécurité de base et les performances
essentiels des appareils de thérapie photodynamique et
de diagnostic photodynamique
(IEC 60601-2-75:2017)

Medizinische elektrische Geräte - Teil 2-75: Besondere
Festlegungen für die Sicherheit einschließlich der
wesentlichen Leistungsmerkmale von photodynamischen
Therapie- und photodynamischen Diagnosegeräten
(IEC 60601-2-75:2017)

This European Standard was approved by CENELEC on 2019-08-07. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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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, Turkey and the United Kingdom.



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

EN IEC 60601-2-75:2019 (E)**European foreword**

The text of document 62D/1477/FDIS, future edition 1.0 of IEC 60601-2-75, prepared by SC 62D "Electromedical equipment" of IEC/TC 62 "Electrical equipment in medical practice" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60601-2-75:2019.

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) 2020-05-07
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-08-07

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The text of the International Standard IEC 60601-2-75:2019 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:

ISO 13695:2004	NOTE	Harmonized as EN ISO 13695:2004 (not modified)
ISO 14971:2007	NOTE	Harmonized as EN ISO 14971:2012 (not modified)
ISO 11146-1:2005	NOTE	Harmonized as EN ISO 11146-1:2005 (not modified)
IEC 62304:2006	NOTE	Harmonized as EN 62304:2006 (not modified)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

The annex ZA of EN 60601-1:2006 applies except as follows:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
<i>Addition</i> IEC 60601-1	2005	Medical electrical equipment - Part 1:EN 60601-1 General requirements for basic safety and essential performance		2006
			+A12 +EN 1:2006/corrigendum Mar. 2010	2014 60601-2010
			+AC +A11	2014 2011
			https://standards.iteh.ai/catalog/standards/sist/c8e5a7a3-d334-4208-8661-771281a60760/sist-en-iec-60601-2-75-2019 SIST EN IEC 60601-2-75:2019	
IEC 60601-2-22	2007	Medical electrical equipment - Part 2-22:EN 60601-2-22 Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment		2013
IEC 60601-2-57	2011	Medical electrical equipment - Part 2-57:EN 60601-2-57 Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use		2011
IEC 60825-1	2014	Safety of laser products - Part 1:EN 60825-1 Equipment classification and requirements	+EN 1:2014/AC:2017-06 +prAA	2014 60825-
IEC 62471 (mod)	2006	Photobiological safety of lamps and lamp systems	EN 62471	2008

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[SIST EN IEC 60601-2-75:2019](#)

<https://standards.iteh.ai/catalog/standards/sist/c8e5a7a3-d334-420e-8661-771281a60760/sist-en-iec-60601-2-75-2019>



IEC 60601-2-75

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Medical electrical equipment –
Part 2-75: Particular requirements for the basic safety and essential performance
of photodynamic therapy and photodynamic diagnosis equipment

Appareils électromédicaux –
Partie 2-75: Exigences particulières pour la sécurité de base et les performances
essentiels des appareils de thérapie photodynamique et de diagnostic
photodynamique

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEDICAL ELECTRICAL EQUIPMENT –

**Part 2-75: Particular requirements for the basic safety
and essential performance of photodynamic therapy
and photodynamic diagnosis equipment**

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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International Standard IEC 60601-2-75 has been prepared by subcommittee 62D: Electromedical equipment, of IEC technical committee 62: Electrical equipment in medical practice.

The text of this particular standard is based on the following documents:

FDIS	Report on voting
62D/1477/FDIS	62D/1490/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this standard, the following print types are used:

- requirements and definitions: roman type;
- *test specifications: italic type;*
- informative material appearing outside of tables, such as notes, examples and references: in smaller type. Normative text of tables is also in a smaller type;
- TERMS DEFINED IN CLAUSE 3 OF THE GENERAL STANDARD, IN THIS PARTICULAR STANDARD OR AS NOTED: SMALL CAPITALS.

In referring to the structure of this standard, 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 standard are preceded by the term “Clause” followed by the clause number. References to subclauses within this particular standard are by number only.

In this standard, 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 standard conform to usage described in Clause 7 of the ISO/IEC Directives, Part 2. For the purposes of this standard, the auxiliary verb

- “shall” means that compliance with a requirement or a test is mandatory for compliance with this standard;
- “should” means that compliance with a requirement or a test is recommended but is not mandatory for compliance with this standard;
- “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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

MEDICAL ELECTRICAL EQUIPMENT –

Part 2-75: Particular requirements for the basic safety and essential performance of photodynamic therapy and photodynamic diagnosis equipment

201.1 Scope, object and related standards

Clause 1 of the general standard¹ applies, except as follows:

201.1.1 Scope

Replacement:

This part of IEC 60601 applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of PHOTODYNAMIC THERAPY AND PHOTODYNAMIC DIAGNOSIS EQUIPMENT.

If a clause or subclause is specifically intended to be applicable to ME EQUIPMENT only, or to ME SYSTEMS only, the title and content of that clause or subclause will say so. If that is not the case, the clause or subclause applies both to ME EQUIPMENT and to ME SYSTEMS, as relevant.

HAZARDS inherent in the intended physiological function of ME EQUIPMENT or ME SYSTEMS within the scope of this document are not covered by specific requirements in this document except in 7.2.13 and 8.4.1 of the general standard¹.

<https://standards.iteh.ai/catalog/standards/sist/c8e5a7a3-d334-420e-8661-60760/sist-en-iec-60601-2-75-2019>

NOTE See also 4.2 of the general standard¹.

This document applies to PHOTODYNAMIC THERAPY AND PHOTODYNAMIC DIAGNOSIS EQUIPMENT used for compensation or alleviation of disease, injury or disability.

In the case of combined equipment (e.g. equipment additionally provided with a function or an APPLIED PART for the target area) such equipment shall also comply with any particular standard specifying safety requirements for the additional function.

This particular standard does not apply to:

- light therapy equipment intended for use in photothermal ablation, coagulation, and hyperthermia;
- low-level laser therapy equipment not intended for use with a PHOTOSENSITIZER;
- illumination equipment intended for use in observation, monitoring, and diagnosis, not intended for use with a PHOTOSENSITIZER.

¹ The general standard is IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012, *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance*.

201.1.2 Object

Replacement:

The object of this particular standard is to establish particular BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for PHOTODYNAMIC THERAPY AND PHOTODYNAMIC DIAGNOSIS EQUIPMENT [as defined in 201.3.214].

201.1.3 Collateral standards

Addition:

All collateral standards shall be treated as additional clauses to the general standard. Unless modified in the body of this document, all collateral standards apply to this particular standard.

201.1.4 Particular standards

Replacement:

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in the general standard and collateral standards as appropriate for the particular ME EQUIPMENT under consideration, and may add other BASIC SAFETY and ESSENTIAL PERFORMANCE requirements.

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A requirement of a particular standard takes priority over the general standard.

For brevity, IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012 are referred to in this particular standard as the general standard. Collateral standards are referred to by their document number. <https://standards.iteh.ai/catalog/standards/sist/c8e5a7a3-d334-420e-8661-771281a60760/sist-en-iec-60601-2-75-2019>

The numbering of clauses and subclauses of this particular standard corresponds to that of the general standard with the prefix “201” (e.g. 201.1 in this document addresses the content of Clause 1 of the general standard) 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 particular standard addresses the content of Clause 4 of the IEC 60601-1-2 collateral standard, 203.4 in this particular standard addresses the content of Clause 4 of the IEC 60601-1-3 collateral standard, etc.). The changes to the text of the general standard are specified by the use of the following words:

“Replacement” means that the clause or subclause of the general standard or applicable collateral standard is replaced completely by the text of this particular standard.

“Addition” means that the text of this particular standard is additional to the requirements of the general standard or applicable collateral standard.

“Amendment” means that the clause or subclause of the general standard or applicable collateral standard is amended as indicated by the text of this particular standard.

Subclauses, figures or tables which are additional to those of the general standard are numbered starting from 201.101. However, due to the fact that definitions in the general standard are numbered 3.1 through 3.147, 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 number of the collateral standard, e.g. 202 for IEC 60601-1-2, 203 for IEC 60601-1-3, etc.