

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 – [IEC 60601-2-75:2017](#)
Partie 2-75: Exigences particulières pour la sécurité de base et les performances
essentielle 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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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 60601-2-75 edition 1.1 contains the first edition (2017-05) [documents 62D/1477/FDIS and 62D/1490/RVD] and its amendment 1 (2023-01) [documents 62D/2006/FDIS and 62D/2017/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

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

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 the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under 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
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INTRODUCTION to Amendment1

At the October 2019 meeting of IEC SC 62D in Shanghai, China, the subcommittee discussed the need for administrative/technical changes to most 62D standards after completion of the amendment projects within the IEC 60601-1 series. Those projects were all completed and the amendments published in 2020.

The full list of IEC SC 62D documents that will be amended or revised may be found within the IEC document 62D/1792/DC. The results and comments on the DC may be found within 62D/1808/INF. The review report for this amendment is 62D/1812/RR.

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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 standard.

NOTE See also 4.2 of the general standard.

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 PHOTSENSITIZER;
- illumination equipment intended for use in observation, monitoring, and diagnosis, not intended for use with a PHOTSENSITIZER.

¹ The general standard is 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.*

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 specify BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for the particular ME EQUIPMENT and ME SYSTEMS. Particular standards may modify, replace or delete requirements contained in the general standard and applicable collateral standards as appropriate for the particular ME EQUIPMENT and ME SYSTEMS under consideration, ~~and may add other BASIC SAFETY and ESSENTIAL PERFORMANCE requirements.~~

A requirement of a particular standard takes priority over the general standard and applicable collateral standards.

[IEC 60601-2-75:2017](https://standards.iteh.ai/IEC/60601-2-75/2017)

For brevity, IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 are referred to in this particular standard as the general standard. Collateral standards are referred to by their document number.

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.

The term "this document" is used to make reference to the general standard, any applicable collateral standards and this particular standard taken together.

Where there is no corresponding clause or subclause in this particular standard, the clause or subclause of the general standard or applicable collateral standard, although possibly not relevant, applies without modification; where it is intended that any part of the general standard or applicable collateral standard, although possibly relevant, is not to be applied, a statement to that effect is given in this particular standard.

201.2 Normative references

NOTE Informative references are listed in the bibliography beginning on page 30.

Clause 2 of the general standard applies, except as follows:

Addition:

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

IEC 60601-2-22:2007/2019, *Medical electrical equipment – Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment*
~~IEC 60601-2-22:2007/AMD1:2012~~

IEC 60601-2-57:2011, *Medical electrical equipment – Part 2-57: Particular requirements for basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use*

IEC 60825-1:2014, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC 62471:2006, *Photobiological safety of lamps and lamp systems*

201.3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 and the following definitions apply, ~~except as follows:~~.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

NOTE An index of defined terms is found beginning on page 32.

Addition:

201.3.201

BEAM DELIVERY SYSTEM

optical system which guides the OPTICAL RADIATION from its origin to the WORKING AREA

[SOURCE: IEC 60601-2-22:2007~~2019~~, 201.3.406~~205~~, modified – “Laser radiation” has been replaced by “OPTICAL RADIATION”.]

201.3.202

EXPOSURE DURATION

duration of a pulse, or series, or train of pulses or of continuous emission of OPTICAL RADIATION incident upon the human body

Note 1 to entry: For a single pulse, this is the duration between the half-peak power point of the leading edge and the corresponding point on the trailing edge. For a train of pulses (or subsections of a train of pulses), this is the duration between the first half-peak power point of the leading pulse and the last half-peak power point of the trailing pulse.

[SOURCE: IEC 60825-1:2014, 3.35, modified – “Laser radiation” has been replaced by “OPTICAL RADIATION”.]

201.3.203

FLUENCE

quotient of the RADIANT ENERGY of all radiation incident on the outer surface of an infinitely small sphere centered at the given point by the areas of the diametrical cross-section of that sphere

$$H_{e,o} = \frac{dQ_{e,o}}{dA}$$

where

$dQ_{e,o}$ is the RADIANT ENERGY;
 dA is the cross sectional area.

Note 1 to entry: SI unit: Joule per square meter (J/m²)

[SOURCE: Photochem. Photobiol. 2007, 83 [2]²; 425-432, 2007]

201.3.204

IRRADIANCE

quotient of the RADIANT FLUX incident on an element of the surface containing the point, by the area of that element

$$E = \frac{d\phi}{dA}$$

$d\phi$ is the RADIANT FLUX

dA is the area of the element.

Note 1 to entry: Symbol: E

Note 2 to entry: SI unit: watt per square meter (W/m²).

[SOURCE: IEC 60825-1:2014, 3.43, modified – Addition of “containing the point”, a key and a new Note to entry.]

² Numbers in square brackets refer to the Bibliography.

201.3.205

LASER ENERGY

RADIANT ENERGY of the WORKING BEAM, incident on the WORKING AREA where the RADIANT ENERGY is the time integral of the radiant flux Φ over a given duration Δt

[SOURCE: IEC 60601-2-22:2007:2019, 201.3.114:216, modified – Note 1 to entry deleted.]

201.3.206

LASER PRODUCT

any product or assembly of components which constitutes, incorporates or is intended to incorporate a laser or laser system

[SOURCE: IEC 60825-1:2014, 3.48]

201.3.207

LS EQUIPMENT

ME EQUIPMENT which incorporates one or more sources of OPTICAL RADIATION in the wavelength range 200 nm to 3 000 nm, with the exception of laser radiation, and which is intended to create ~~non-visual~~ photo-biological effects in humans or animals for therapeutic, diagnostic, monitoring, cosmetic/aesthetic or veterinary applications

[SOURCE: IEC 60601-2-57:2011, 201.3.208, modified – Deletion of the term “non-visual”.]

201.3.208

OPTICAL RADIATION

electromagnetic radiation with wavelengths between 100 nm and 1 mm

[SOURCE: IEC 60601-2-57:2011, 201.3.211] ~~01-2-75:2017~~

<https://standards.iteh.ai/catalog/standards/sist/e0413a7c-6b5e-4dc0-bc7a-6a1ce72e6a4c/iec-60601-2-75-2017>

201.3.209

OPTICAL RADIATION INDICATOR

visible means which indicates that the PHOTODYNAMIC THERAPY AND PHOTODYNAMIC DIAGNOSIS EQUIPMENT makes all persons present in the area aware of the need to take precautions against hazardous OPTICAL RADIATION

201.3.210

OUTPUT

either radiant power or RADIANT ENERGY emitted by PHOTODYNAMIC THERAPY AND PHOTODYNAMIC DIAGNOSIS EQUIPMENT

Note 1 to entry: OUTPUT defined in this document includes both the definitions LASER OUTPUT in ~~IEC 60601-2-22:2007, 201.3.113~~ IEC 60601-2-22:2019, 201.3.216 and IEC 60601-2-22:2019, 201.3.218 and LS EQUIPMENT OUTPUT in IEC 60601-2-57:2011, 201.3.209.

201.3.211

OUTPUT POWER

RADIANT POWER of the WORKING BEAM, incident on the WORKING AREA, where the RADIANT POWER is the power emitted, transferred, or received in the form of radiation

[SOURCE: IEC 60601-2-22:2007:2019, 201.3.114:218, modified – Replacement of the term “laser power” by “OUTPUT POWER”.]