

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Medical electrical equipment –
Part 2-63: Particular requirements for the basic safety and essential performance
of dental extra-oral X-ray equipment**

**Appareils électromédicaux –
Partie 2-63: Exigences particulières pour la sécurité de base et les performances
essentielles des appareils à rayonnement X dentaires extra-oraux**

<https://standards.iteh.ai/catalog/standards/iec/a4af6b9f-e27c-469e-8497-5aba0c1041ea/iec-60601-2-63-2012>





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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	7
INTRODUCTION TO AMENDMENT 1	7
201.1 Scope, object and related standards.....	8
201.2 Normative references	10
201.3 Terminology and definitions.....	11
201.4 General requirements.....	13
201.5 General requirements for testing of ME EQUIPMENT.....	13
201.6 Classification of ME EQUIPMENT and ME SYSTEMS	13
201.7 ME EQUIPMENT identification, marking and documents.....	14
201.8 Protection against electrical HAZARDS from ME EQUIPMENT.....	16
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.....	18
201.12 Accuracy of controls and instruments and protection against hazardous outputs	18
201.13 HAZARDOUS SITUATIONS and fault conditions	18
201.14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS)	19
201.15 Construction of ME EQUIPMENT	19
201.16 ME SYSTEMS.....	19
201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS.....	19
202 Electromagnetic compatibility – Requirements and tests.....	19
203 Radiation protection in diagnostic X-ray equipment	19
Annexes	31
Annex C (informative) Guide to marking and labelling requirements for ME EQUIPMENT and ME SYSTEMS.....	32
Annex AA (informative) Particular guidance and rationale.....	33
Bibliography.....	39
Index of defined terms used in this particular standard.....	42
Figure 203.101 – Zone of EXTRA-FOCAL RADIATION	28
Figure AA.1 – PANORAMIC X-RAY EQUIPMENT	33
Figure AA.2 – AIR KERMA during IRRADIATION with direct current X-RAY GENERATOR.....	35
Figure AA.3 – AIR KERMA during IRRADIATION with ONE-PEAK X-RAY GENERATOR	36
Figure AA.4 – Example – series of (numerous) pulsed IRRADIATIONS for a CBCT (cone beam computed tomography) IRRADIATION event, with CONSTANT POTENTIAL HIGH-VOLTAGE GENERATOR and time-width modulation	37
Figure AA.5 – Example – series of two irradiations for PANORAMIC-like views of right and left TMJ (temporo-mandibular joint) in the same image, with ONE-PEAK HIGH-VOLTAGE GENERATOR.....	37
Table 201.101 – List of potential ESSENTIAL PERFORMANCE to be considered by MANUFACTURER in the RISK MANAGEMENT PROCESS.....	13

Table 201.C.101 – Marking on the outside of ME EQUIPMENT or its parts 32
Table 201.C.102 – Subclauses requiring statements in ACCOMPANYING DOCUMENTS 32

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEDICAL ELECTRICAL EQUIPMENT –

Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment

FOREWORD

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 60601-2-63 edition 1.1 contains the first edition (2012-09) [documents 62B/888/FDIS and 62B/898/RVD] and its amendment 1 (2017-07) [documents 62B/1049/FDIS and 62B/1058/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 60601-2-63 has been prepared by IEC subcommittee 62B: Diagnostic imaging 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: in roman type.
- *Test specifications: in 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 Annex H 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 "<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.

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INTRODUCTION

This particular standard has been prepared to provide, based on IEC 60601-1:2005 (third edition), and its collaterals, a complete set of BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for DENTAL EXTRA-ORAL X-RAY EQUIPMENT. While the previously existing standards for such equipment were dedicated to components and subsystems, this particular standard addresses the system level of DENTAL EXTRA-ORAL X-RAY EQUIPMENT. Components and their functions are addressed as far as necessary.

The minimum safety requirements specified in this particular standard are considered to provide for a practical degree of safety in the operation of DENTAL EXTRA-ORAL X-RAY EQUIPMENT

The minimum safety requirements for DENTAL INTRA-ORAL X-RAY EQUIPMENT are specified in a separate particular standard IEC 60601-2-65 to simplify and improve the readability

Requirements particular to DENTAL X-RAY-EQUIPMENT which were included in previous editions of the collateral standard IEC 60601-1-3, the particular standards IEC 60601-2-28 IEC 60601-2-7, or IEC 60601-2-32 have been extracted and moved into this particular standard.

All requirements addressing integrated X-RAY TUBE ASSEMBLIES are covered by this particular standard.

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INTRODUCTION TO AMENDMENT 1

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The purpose of this first amendment to IEC 60601-2-63:2012 is to introduce changes to reference the Amendment 1 (2012) to IEC 60601-1:2005. As neither IEC 60601-2-63:2012 nor this amendment refers to specific elements of IEC 60601-1-2, the introduction of a dated reference to the latter document has been removed.

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MEDICAL ELECTRICAL EQUIPMENT –

Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment

201.1 Scope, object and related standards

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

201.1.1 Scope

Replacement:

This International Standard applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of DENTAL EXTRA-ORAL X-RAY EQUIPMENT, hereafter also called ME EQUIPMENT. The scope includes ME SYSTEMS containing such ME EQUIPMENT.

NOTE 1 This includes PANORAMIC equipment, CEPHALOMETRIC equipment, and equipment for dental volumetric reconstruction (hereafter DVR) as defined in 201.3.203 below.

NOTE 2 DVR includes dental CBCT (cone beam computed tomography), which is also known with other names in certain parts of the world, e.g. DVT (digital volumetric tomography); DVR also includes tomosynthesis.

NOTE 3 This may include the imaging of other anatomical parts (e.g. the hand) as long as required for dental treatment (e.g. orthodontic treatment).

NOTE 4 This may include anatomical objects of interest to the ENT (ear, nose, and throat) specialist.

The scope of this standard is restricted to X-RAY EQUIPMENT where:

- the X-RAY TUBE ASSEMBLY contains the HIGH-VOLTAGE TRANSFORMER ASSEMBLY and
- the geometrical relations between the X-RAY SOURCE, the anatomical object being imaged in the PATIENT, and the X-RAY IMAGE RECEPTOR, are preset in the design and cannot be arbitrarily altered by the OPERATOR during INTENDED USE.

NOTE 5 DENTAL INTRA-ORAL X-RAY EQUIPMENT is excluded from the scope of this standard.

NOTE 6 FOCAL SPOT TO IMAGE RECEPTOR DISTANCE and FOCAL SPOT to object distance are preset in the design of DENTAL EXTRA-ORAL X-RAY EQUIPMENT.

NOTE 7 For DENTAL X-RAY EQUIPMENT not in the scope of this document because of the restriction above, applicable clauses of IEC 60601-2-54 may be used with this document.

ME EQUIPMENT and ME SYSTEMS in the scope of IEC 60601-2-44, IEC 60601-2-54, IEC 60601-2-45, IEC 60601-2-65 or IEC 60601-2-43 are excluded from the scope of this particular standard. The scope of this International Standard also excludes RADIOTHERAPY SIMULATORS and equipment for bone or tissue absorption densitometry. Excluded from the scope is also ME EQUIPMENT intended to be used for DENTAL RADIOLOGY.

Within its specific scope, the clauses of this particular standard supersede and replace those of IEC 60601-2-7, *Medical electrical equipment – Particular requirements for the safety of high-voltage generators of diagnostic X-ray generators* and of IEC 60601-2-32, *Medical electrical equipment – Particular requirements for the safety of associated equipment of X-ray equipment*.

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*

NOTE 8 Requirements for X-RAY GENERATORS and for ASSOCIATED EQUIPMENT, which were previously specified in IEC 60601-2-7 and IEC 60601-2-32, have been included in either IEC 60601-1:2005 (Ed3) or this particular standard. Therefore IEC 60601-2-7 and IEC 60601-2-32 are not part of the IEC 60601-1 3rd edition scheme for DENTAL EXTRA-ORAL X-RAY EQUIPMENT.

All requirements addressing integrated X-RAY TUBE ASSEMBLIES are covered by this particular standard. Therefore IEC 60601-2-28 does not apply to ME EQUIPMENT in the scope of this International Standard with the exception of X-RAY TUBE ASSEMBLIES that are replaceable in the field.

NOTE 9 Requirements particular to DENTAL X-RAY-EQUIPMENT which were included in previous editions of the collateral standard IEC 60601-1-3 or the particular standard IEC 60601-2-28 have been extracted and moved into this particular standard.

NOTE 10 For X-RAY EQUIPMENT in the scope of this particular standard X-RAY TUBE ASSEMBLIES are X-RAY MONOBLOCK ASSEMBLIES.

201.1.2 Object

Replacement:

The object of this particular standard is to establish particular BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for ME EQUIPMENT for EXTRA-ORAL DENTAL RADIOGRAPHY.

201.1.3 Collateral standards

Addition:

This particular standard refers to those applicable collateral standards that are listed in Clause 2 of the general standard and Clause 201.2 of this particular standard.

IEC 60601-1-2 and IEC 60601-1-3 apply as modified in Clause 202 and 203 respectively. IEC 60601-1-8, IEC 60601-1-10²⁾, IEC 60601-1-11³⁾ and IEC 60601-1-12⁴⁾ do not apply. All other published collateral standards in the IEC 60601-1 series apply as published.

<https://www.ietc.org/standards/iec-60601-2-63-2012> NOTE OPERATORS of DENTAL EXTRA-ORAL X-RAY EQUIPMENT are used to audible signals as required in this particular standard rather than to the concepts of IEC 60601-1-8. Therefore IEC 60601-1-8 does not apply.

201.1.4 Particular standards

Replacement:

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in the general standard or 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 the general standard.

For brevity, IEC 60601-1 is referred to in this particular standard as the general standard. Collateral standards are referred to by their document number.

2) IEC 60601-1-10, *Medical electrical equipment – Part 1-10: General requirements for basic safety and essential performance – Collateral Standard: Requirements for the development of physiologic closed-loop controllers*

3) IEC 60601-1-11, *Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment*

4) IEC 60601-1-12, *Medical electrical equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment*

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 standard 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 60601-1-2 collateral standard, 203.4 in this particular standard addresses the content of Clause 4 of the 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 3.139, additional definitions in this standard 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 standard” 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 39.

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

Replacement:

~~IEC 60601-1-2:2007, Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests~~

IEC 60601-1-3:2008, Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral standard: Radiation protection in diagnostic X-ray equipment

IEC 60601-1-3:2008/AMD1:2013

Addition: