

<b>STN</b>	<b>Zdravotnícke elektrické prístroje Časť 2-65: Osobitné požiadavky na základnú bezpečnosť a nevyhnutné prevádzkové vlastnosti stomatologických intraorálnych röntgenových prístrojov Zmena A1</b>	<b>STN EN 60601-2-65/A1</b>  36 4800
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Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/20

STN EN 60601-2-65 z augusta 2013 sa bez tejto zmeny A1 môže používať do 3. 4. 2023.

Obsahuje: EN 60601-2-65:2013/A1:2020, IEC 60601-2-65:2012/AMD1:2017

**131255**

EUROPEAN STANDARD

**EN 60601-2-65:2013/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 11.040.50

English Version

**Medical electrical equipment - Part 2-65: Particular requirements  
for the basic safety and essential performance of dental intra-  
oral X-ray equipment  
(IEC 60601-2-65:2012/A1:2017)**

Appareils électromédicaux - Partie 2-65: Exigences  
particulières pour la sécurité de base et les performances  
essentielles des appareils à rayonnement X dentaires intra-  
oraux  
(IEC 60601-2-65:2012/A1:2017)

Medizinische elektrische Geräte - Teil 2-65: Besondere  
Festlegungen für die Sicherheit einschließlich der  
wesentlichen Leistungsmerkmale von intraoralen  
zahnärztlichen Röntgeneinrichtungen  
(IEC 60601-2-65:2012/A1:2017)

This amendment A1 modifies the European Standard EN 60601-2-65:2013; it was approved by CENELEC on 2020-01-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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**

**EN 60601-2-65:2013/A1:2020 (E)****European foreword**

The text of document 62B/1006/CDV, future IEC 60601-2-65/A1, prepared by SC 62B "Diagnostic imaging equipment" of IEC/TC 62 "Electrical equipment in medical practice" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60601-2-65:2013/A1:2020.

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) 2020-10-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-04-03

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s), see informative Annex ZZ, included in EN 60601-2-65:2013.

**Endorsement notice**

The text of the International Standard IEC 60601-2-65:2012/A1:2017 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 60601-1-10	NOTE	Harmonized as EN 60601-1-10
IEC 60601-1-11	NOTE	Harmonized as EN 60601-1-11
IEC 60601-1-12	NOTE	Harmonized as EN 60601-1-12

## 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](http://www.cenelec.eu).

*The Annex ZA of EN 60601-1:2006 is applicable, except as follows:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
<i>Replace</i>				
IEC 60601-1-3	2008	Medical electrical equipment - Part 1-3:EN 60601-1-3 General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment		2008
			+EN 60601-1-2010 3:2008/corrigendum Mar. 2010	
			+A11	2016
<i>Addition</i>				
IEC 60336	-	Medical electrical equipment - X-ray tube assemblies for medical diagnosis - Characteristics of focal spots	EN 60336	-
IEC 60601-1	2005	Medical electrical equipment - Part 1:EN 60601-1 General requirements for basic safety and essential performance		2006
			+A12	2014
			+EN 60601-2010 1:2006/corrigendum Mar. 2010	
			+AC	2014
			+A11	2011
IEC 62220-1	2003	Medical electrical equipment Characteristics of digital X-ray imaging devices -- Part 1: Determination of the detective quantum efficiency	-EN 62220-1	2004
IEC/TR 60788	2004	Medical electrical equipment - Glossary of defined terms		-



IEC 60601-2-65

Edition 1.0 2017-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

**Medical electrical equipment –  
Part 2-65: Particular requirements for the basic safety and essential performance  
of dental intra-oral X-ray equipment**

**Appareils électromédicaux –  
Partie 2-65: Exigences particulières pour la sécurité de base et les performances  
essentielles des appareils à rayonnement X dentaires intra-oraux**



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#### Glossaire IEC - [std.iec.ch/glossary](http://std.iec.ch/glossary)

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IEC 60601-2-65

Edition 1.0 2017-05

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## FOREWORD

This amendment has been prepared by subcommittee 62B: Diagnostic imaging equipment, of IEC technical committee 62: Electrical equipment in medical practice.

The text of this amendment is based on the following documents:

CDV	Report on voting
62B/1006/CDV	62B/1039/RVC

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website 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 TO AMENDMENT 1

The purpose of this first amendment to IEC 60601-2-65:2012 is to introduce changes to reference the Amendment 1 (2012) to IEC 60601-1:2005. As neither IEC 60601-2-65:2012 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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### 201.1 Scope, object and related standards

*Replace the text of the existing footnote by the following:*

<sup>1)</sup> 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*



IEC 60601-2-65:2012/AMD1:2017 – 3 –  
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### 201.1.3 Collateral standards

*Replace the existing second sentence of the second paragraph by the following:*

IEC 60601-1-8, IEC 60601-1-10<sup>1</sup>, IEC 60601-1-11<sup>2</sup> and IEC 60601-1-12<sup>3</sup> do not apply

### 201.2 Normative references

*Delete, under "Replacement", the existing reference to IEC 60601-1-2:2007.*

*Replace, under "Replacement", the existing reference to IEC 60601-1-3 by the following:*

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

*Add, under "Addition", the following new reference:*

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

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**

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<sup>1</sup> 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*

<sup>2</sup> 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*

<sup>3</sup> 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*