



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61267:2006

ICS 11.040.50

**MEDICAL DIAGNOSTIC X-RAY EQUIPMENT**  
**- RADIATION CONDITIONS FOR USE IN**  
**THE DETERMINATION OF**  
**CHARACTERISTICS**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61267**

January 2006

ICS 11.040.50

Supersedes EN 61267:1994

English version

**Medical diagnostic X-ray equipment –  
Radiation conditions for use in the determination of characteristics  
(IEC 61267:2005)**

Équipement de diagnostic médical  
à rayonnement X –  
Conditions de rayonnement  
pour utilisation dans la détermination  
des caractéristiques  
(CEI 61267:2005)

Medizinische diagnostische  
Röntgeneinrichtung –  
Bestrahlungsbedingungen zur  
Bestimmung von Kenngrößen  
(IEC 61267:2005)

This European Standard was approved by CENELEC on 2005-12-01. 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 Central Secretariat or to any CENELEC member.

This European Standard 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 62C/391/FDIS, future edition 2 of IEC 61267, prepared by SC 62C, Equipment for radiotherapy, nuclear medicine and radiation dosimetry, of IEC TC 62, Electrical equipment in medical practice, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61267 on 2005-12-01.

This European Standard supersedes EN 61267:1994.

The main changes compared to EN 61267:1994 include:

- a) introduction of “practical peak voltage” for measuring X-ray tube voltage;
- b) introduction of a new procedure for establishing the radiation qualities;
- c) inserting of an informative Annex B “Determination of the amount of additional filtration” and a normative Annex C “Measurement of the practical peak voltage”;
- d) revision of radiation qualities and radiation conditions;
- e) addition of term definitions.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2006-09-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2008-12-01 |

This European Standard makes reference to International Standards. Where the International Standard referred to has been endorsed as a European Standard or a home-grown European Standard exists, this European Standard shall be applied instead. Pertinent information can be found on the CENELEC web site.

In this standard, the following print types are used:

- requirements proper: roman type;
- *test specifications: italic type;*
- notes and explanatory matter: small roman type;
- TERMS USED THROUGHOUT THIS PARTICULAR STANDARD THAT ARE DEFINED IN CLAUSE 3, OR IN OTHER STANDARDS: SMALL CAPITALS.

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## Endorsement notice

The text of the International Standard IEC 61267:2005 was approved by CENELEC as a European Standard without any modification.

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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC**

**61267**

Deuxième édition  
Second edition  
2005-11

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**Equipement de diagnostic médical  
à rayonnement X –  
Conditions de rayonnement pour utilisation dans  
la détermination des caractéristiques**

**Medical diagnostic X-ray equipment –  
Radiation conditions for use in the  
determination of characteristics**



Numéro de référence  
Reference number  
CEI/IEC 61267:2005

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Depuis le 1er janvier 1997, les publications de la CEI sont numérotées à partir de 60000. Ainsi, la CEI 34-1 devient la CEI 60034-1.

## Editions consolidées

Les versions consolidées de certaines publications de la CEI incorporant les amendements sont disponibles. Par exemple, les numéros d'édition 1.0, 1.1 et 1.2 indiquent respectivement la publication de base, la publication de base incorporant l'amendement 1, et la publication de base incorporant les amendements 1 et 2.

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Le contenu technique des publications de la CEI est constamment revu par la CEI afin qu'il reflète l'état actuel de la technique. Des renseignements relatifs à cette publication, y compris sa validité, sont disponibles dans le Catalogue des publications de la CEI (voir ci-dessous) en plus des nouvelles éditions, amendements et corrigenda. Des informations sur les sujets à l'étude et l'avancement des travaux entrepris par le comité d'études qui a élaboré cette publication, ainsi que la liste des publications parues, sont également disponibles par l'intermédiaire de:

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## Publication numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series. For example, IEC 34-1 is now referred to as IEC 60034-1.

## Consolidated editions

The IEC is now publishing consolidated versions of its publications. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

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