



**NSAI**  
Standards

Irish Standard  
I.S. EN 62220-1-3:2008

Medical electrical equipment -  
Characteristics of digital X-ray imaging  
devices -- Part 1-3: Determination of  
the detective quantum efficiency -  
Detectors used in dynamic imaging (IEC  
62220-1-3:2008 (EQV))

## I.S. EN 62220-1-3:2008

*Incorporating amendments/corrigenda issued since publication:*

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ICS 11.040.50

English version

**Medical electrical equipment -  
Characteristics of digital X-ray imaging devices -  
Part 1-3: Determination of the detective quantum efficiency -  
Detectors used in dynamic imaging  
(IEC 62220-1-3:2008)**

Appareils électromédicaux -  
Caractéristiques des dispositifs d'imagerie  
numérique à rayonnement X -  
Partie 1-3: Détermination de  
l'efficacité quantique de détection -  
DéTECTEURS utilisés en imagerie dynamique  
(CEI 62220-1-3:2008)

Medizinische elektrische Geräte -  
Merkmale digitaler Röntgenbildgeräte -  
Teil 1-3: Bestimmung der  
detektiven Quanten-Ausbeute -  
Bildempfänger für  
dynamische Bildgebung  
(IEC 62220-1-3:2008)

This European Standard was approved by CENELEC on 2008-07-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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**

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## Foreword

The text of document 62B/694/FDIS, future edition 1 of IEC 62220-1-3, 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 was approved by CENELEC as EN 62220-1-3 on 2008-07-01.

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) 2009-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-07-01

In this standard, terms printed in SMALL CAPITALS are used as defined in IEC/TR 60788, in Clause 3 of this standard or in other IEC publications referenced in the Index of defined terms. Where a defined term is used as a qualifier in another defined or undefined term it is not printed in SMALL CAPITALS, unless the concept thus qualified is defined or recognized as a “derived term without definition”.

NOTE Attention is drawn to the fact that, in cases where the concept addressed is not strongly confined to the definition given in one of the publications listed above, a corresponding term is printed in lower-case letters.

In this standard, certain terms that are not printed in SMALL CAPITALS have particular meanings, as follows:

- "shall" indicates a requirement that is mandatory for compliance;
- "should" indicates a strong recommendation that is not mandatory for compliance;
- "may" indicates a permitted manner of complying with a requirement or of avoiding the need to comply;
- "specific" is used to indicate definitive information stated in this standard or referenced in other standards, usually concerning particular operating conditions, test arrangements or values connected with compliance;
- "specified" is used to indicate definitive information stated by the manufacturer in accompanying documents or in other documentation relating to the equipment under consideration, usually concerning its intended purposes, or the parameters or conditions associated with its use or with testing to determine compliance.

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive MDD (93/42/EEC). See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

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### **Endorsement notice**

The text of the International Standard IEC 62220-1-3:2008 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 62220-1	NOTE	Harmonized as EN 62220-1:2004 (not modified).
IEC 62220-1-2	NOTE	Harmonized as EN 62220-1-2:2007 (not modified).
IEC 61262-5	NOTE	Harmonized as EN 61262-5:1994 (not modified).

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60336	- <sup>1)</sup>	Medical electrical equipment - X-ray tube assemblies for medical diagnosis - Characteristics of focal spots	EN 60336	2005 <sup>2)</sup>
IEC/TR 60788	2004	Medical electrical equipment - Glossary of defined terms	-	-
IEC 61267	1994	Medical diagnostic X-ray equipment - Radiation conditions for use in the determination of characteristics	EN 61267 <sup>3)</sup>	1994
ISO 12232	1998	Photography - Electronic still-picture cameras - Determination of ISO speed	-	-

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

<sup>3)</sup> IEC 61267:2005 is harmonised as EN 61267:2006 (not modified).

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