



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 62220-1:2004

ICS 11.040.50

**MEDICAL ELECTRICAL EQUIPMENT -
CHARACTERISTICS OF DIGITAL X-RAY
IMAGING DEVICES
PART 1: DETERMINATION OF THE
DETECTIVE QUANTUM EFFICIENCY
(IEC 62220-1:2003)**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

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Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 62220-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2004

ICS 11.040.50

English version

**Medical electrical equipment –
Characteristics of digital X-ray imaging devices
Part 1: Determination of the detective quantum efficiency
(IEC 62220-1:2003)**

Appareils électromédicaux -
Caractéristiques des appareils d'imagerie
à rayonnement X
Part 1: Détermination de l'efficacité
quantique de détection
(CEI 62220-1:2003)

Medizinische elektrische Geräte -
Merkmale digitaler Röntgenbildgeräte
Teil 1: Bestimmung der detektiven
Quanten-Ausbeute
(IEC 62220-1:2003)

This European Standard was approved by CENELEC on 2003-12-01. 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, 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 62B/493/FDIS, future edition 1 of IEC 62220-1, 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 on 2003-12-01.

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) 2004-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-12-01

In this standard, terms printed in SMALL CAPITALS are used as defined in IEC 60788, in Clause 3 of this standard or other IEC publications referenced in Annex B. 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.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62220-1:2003 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61262-5 NOTE Harmonized as EN 61262-5:1994 (not modified).

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	1993	X-ray tube assemblies for medical diagnosis - Characteristics of focal spots	EN 60336	1995
IEC 60601-2-7	- ¹⁾	Medical electrical equipment Part 2-7: Particular requirements for the safety of high-voltage generators of diagnostic X-ray generators	EN 60601-2-7	1998 ²⁾
IEC 60788	1984	Medical radiology - Terminology	HD 501 S1	1988
IEC 61267	1994	Medical diagnostic X-ray equipment - Radiation conditions for use in the determination of characteristics	EN 61267	1994
ISO 12232	1998	Photography - Electronic still-picture cameras - Determination of ISO speed	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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Medical electrical equipment – Characteristics of digital X-ray imaging devices – Part 1: Determination of the detective quantum efficiency

*Appareils électromédicaux –
Caractéristiques des appareils d'imagerie à rayonnement X –
Partie 1: Détermination de l'efficacité quantique de détection*



Reference number
IEC 62220-1:2003(E)

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