



BSI Standards Publication

Medical electrical equipment — Characteristics of digital X-ray imaging devices

Part 2-1: Determination of dual-energy subtraction efficiency —
Detectors used for dual-energy radiographic imaging

National foreword

This British Standard is the UK implementation of EN IEC 62220-2-1:2023. It is identical to IEC 62220-2-1:2023. It supersedes BS IEC 62220-2-1:2023, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/62/2, Diagnostic imaging equipment.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

Medical electrical equipment - Characteristics of digital X-ray
imaging devices - Part 2-1: Determination of dual-energy
subtraction efficiency - Detectors used for dual-energy
radiographic imaging
(IEC 62220-2-1:2023)

Appareils électromédicaux - Caractéristiques des dispositifs
d'imagerie à rayonnement X - Partie 2-1: Détermination de
l'efficacité de soustraction à double énergie - Détecteurs
utilisés en imagerie radiographique à double énergie
(IEC 62220-2-1:2023)

Medizinische elektrische Geräte - Merkmale digitaler
Röntgenbildgeräte - Teil 2-1: Bestimmung des
Wirkungsgrades der Zwei-Energie-Subtraktion - Detektoren
für die Zwei-Energie-Röntgenbildgebung
(IEC 62220-2-1:2023)

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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

European foreword

The text of document 62B/1288/CDV, future edition 1 of IEC 62220-2-1, 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 approved by CENELEC as EN IEC 62220-2-1:2023.

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) 2024-06-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-09-13

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60601-2-54	NOTE	Approved as EN 60601-2-54
IEC 60601-1-3:2008	NOTE	Approved as EN 60601-1-3:2008 (not modified) + A11:2016
IEC 61674:2012	NOTE	Approved as EN 61674:2013 (not modified)
IEC 62220-1-1:2015	NOTE	Approved as EN 62220-1-1:2015 (not modified)
IEC 60601-2-68:2014	NOTE	Approved as EN 60601-2-68:2015 (not modified)

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.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60336	-	Medical electrical equipment - X-ray tube assemblies for medical diagnosis - Focal spot dimensions and related characteristics	EN IEC 60336	-
IEC/TR 60788	2004	Medical electrical equipment - Glossary of defined terms	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MEDICAL ELECTRICAL EQUIPMENT –
CHARACTERISTICS OF DIGITAL X-RAY IMAGING DEVICES –****Part 2-1: Determination of dual-energy subtraction efficiency –
Detectors used for dual-energy radiographic imaging**

FOREWORD

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IEC 62220-2-1 has been prepared by subcommittee 62B: Medical imaging equipment, software, and systems, of IEC technical committee 62: Medical equipment, software, and systems. It is an International Standard.

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

Draft	Report on voting
62B/1288/CDV	62B/1316/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62220 series, published under the general title *Medical electrical equipment – Characteristics of digital X-ray imaging devices*, can be found on the IEC website.

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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.

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