SLOVENSKI STANDARD
SIST EN 60406:1998

01-september-1998

Cassettes for medical X-ray diagnosis - Radiographic cassettes and mammographic cassettes (IEC 60406:1997)

Cassettes for medical X-ray diagnosis - Radiographic cassettes and mammographic cassettes

Kassetten für medizinische Röntgenaufnahmen - Röntgenkassetten und Mammographie -Kassetten

Cassettes pour la radiographie médicale - Cassettes radiographiques et cassettes mammographiques

Ta slovenski standard je istoveten z: **EN 60406:1997**

ICS:

11.040.50	Radiografska oprema	Radiographic equipment
37.040.99	Drugi standardi v zvezi s fotografijo	Other standards related to photography

SIST EN 60406:1998 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60406

May 1997

ICS 37.040.99

Supersedes HD 356 S1:1977

English version

Cassettes for medical X-ray diagnosis
Radiographic cassettes and mammographic cassettes
(IEC 60406:1997)

Cassettes pour la radiographie médicale
Cassettes radiographiques et cassettes mammographiques
(CEI 60406:1997)

Kassetten für medizinische Röntgenaufnahmen
Röntgenkassetten und Mammographie-Kassetten
(IEC 60406:1997)

This European Standard was approved by CENELEC on 1997-03-11. 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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

Ref. No. EN 60406:1997 E

Foreword

The text of document 62B/292/FDIS, future edition 3 of IEC 60406, 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 60406 on 1997-03-11.

This European Standard supersedes HD 356 S1:1977.

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) 1997-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-12-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annexes A, B, C, D and ZA are normative and annex E is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60406:1997 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 336	1993	X-ray tube assemblies for medical diagnosis Characteristics of focal spots	EN 60336	1995
IEC 658	1979	Radiographic intensifying screens for medical use - Dimensions	-	-
IEC 788	1984	Medical radiology - Terminology	HD 501 S1	1988
IEC 1223-2-2	1993	Evaluation and routine testing in medical imaging departments Part 2-2: Constancy tests - Radiographic cassettes and film changers - Film screen contact and relative sensitivity of the screen-cassette assembly	-	-
IEC 1267	1994	Medical diagnostic X-ray equipment Radiation conditions for use in the determination of characteristics	EN 61267	1994
ISO 2092	1981	Light metals and their alloys - Code of designation based on chemical symbols	-	-

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
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Troisième édition
Third edition
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Cassettes pour la radiographie médicale –

Cassettes radiographiques et cassettes mammographiques

Cassettes for medical X-ray diagnosis –

Radiographic cassettes and mammographic cassettes

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Международная Электротехническая Комиссия

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FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.

3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.

4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60406 has been prepared by subcommittee 62B: Diagnostic imaging equipment, of IEC technical committee 62: Electrical equipment in medical practice.

This third edition cancels and replaces the second edition of IEC 406 published in 1975 and constitutes a technical revision.

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

FDIS	Report on voting
62B/292/FDIS	62B/308/RVD

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

Annexes A, B, C and D form an integral part of this standard.

Annex E is for information only.

In this standard, the following print types are used:

– requirements, compliance with which can be tested, and definitions: roman type;

– explanations, advice, introductions, general statements and exceptions: in smaller type;

– *test specifications: in italic type*;

– TERMS USED THROUGHOUT THIS STANDARD WHICH HAVE BEEN DEFINED EITHER IN CLAUSE 3 OR IN IEC 788: SMALL CAPITALS.

CASSETTES FOR MEDICAL X-RAY DIAGNOSIS –

Radiographic cassettes and mammographic cassettes

1 Scope

This International Standard deals with the manufacture of RADIOGRAPHIC CASSETTES and mammographic cassettes intended to be used with RADIOGRAPHIC SCREENS in medical practice.

This standard does not apply to special cassettes (such as cassettes with built-in ANTI-SCATTER GRIDS, cassettes for simultaneous TOMOGRAPHY). It is provided to ensure that X-RAY EQUIPMENT can be operated with RADIOGRAPHIC CASSETTES of different MANUFACTURERS.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 336: 1993, *X-ray tube assemblies for medical diagnosis – Characteristics of focal spots*

IEC 658: 1979, *Radiographic intensifying screens for medical use – Dimensions*

IEC 788: 1984, *Medical radiology – Terminology*

IEC 1223-2-2: 1993, *Evaluation and routine testing in medical imaging departments – Part 2-2: Constancy tests – Radiographic cassettes and film changers – Film-screen contact and relative sensitivity of the screen-cassette assembly*

IEC 1267: 1994, *Medical diagnostic X-ray equipment – Radiation conditions for use in the determination of characteristics*

ISO 2092: 1981, *Light metals and their alloys – Code of designation based on chemical symbols*

3 Terminology

3.1 *Degree of requirements*

In this standard, certain terms (which 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;