

JAPANESE INDUSTRIAL STANDARD

Translated and Published by Japanese Standards Association

JIS Z 4752-2-1:2005

(JSRT/JSA)

Evaluation and routine testing in medical imaging departments — Part 2-1: Constancy tests — Film processors

ICS 11.040.50; 37.040.10

Reference number: JIS Z 4752-2-1: 2005 (E)

Z 4752-2-1:2005

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Health, Labour and Welfare and the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japanese Society of Radiological Technology (JSRT)/Japanese Standards Association (JSA), with a draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Date of Establishment: 2005-03-25

Date of Public Notice in Official Gazette: 2005-03-25

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Medical Equipment

JIS Z 4752-2-1: 2005, First English edition published in 2005-08

Translated and published by: Japanese Standards Association 4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

© ISA 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan M&T

Page

Contents

Introduction	
1 1.1 1.2	Scope and object.1Scope.1Object.2
2	Normative references
3 3.1 3.2	Terminology 3 Use of terms 3 Definitions 3
4 4.1 4.2 4.3 4.4	General aspects of constancy tests3Principle of the test procedures3Test equipment4Film processor: Cleaning, maintenance and log book5Dark room safelight conditions5
5 5.1 5.2	Test procedure
6	Action to be taken
7	Statement of compliance
Annex	x A (informative) Terminology—Index of terms
Annex	x B (informative) Example of a form for the standardized test report
Annex	x C (informative) Guidance on action to be taken
Annex	x D (informative) Rationale
Annex	x E (informative) Procedures for initial setting up of the film processor 20
Annex	x 1 (informative) Flow chart of constancy tests
Annez	x 2 (informative) Comparison table between JIS and corresponding International Standard

Evaluation and routine testing in medical imaging departments—Part 2-1: Constancy tests—Film processors

JIS Z 4752-2-1: 2005

Introduction This Japanese Industrial Standard has been prepared based on the first edition of IEC 61223-2-1 Evaluation and routine testing in medical imaging departments—Part 2-1: Constancy tests—Film processors published in 1993 with some modifications of the technical contents.

The portions underlined with dots are the matters modified from the original International Standard. A list of modifications with the explanations is given in annex 2 (informative). In this Standard, the descriptions where the mark (*) is applied on the upper left of the clause number or detail code indicate that these supplemental explanations are specified in annex D (Rationale).

1 Scope and object

- 1.1 Scope This part of JIS Z 4752 applies to those components of X-ray equipment which process radiographic film and other photographic materials in X-ray facilities in which any of the following radiographic or photographic materials are handled. However, it does not apply to the dry-type film processor:
 - all types of screen film;
 - non-screen film;
 - photographic film for indirect radiography, as used for recording
 - · output images of X-ray image intensifiers,
 - · other transferred radiological images;
 - photographic material for copying radiograms;
 - photographic material for making permanent images as used in diagnostic equipment such as for general reconstructive tomography (CT scanning), digital imaging, ultrasound, magnetic resonance, nuclear medicine.

The method described in this Standard is intended primarily for automatic film processors, but may be adapted for testing equipment for manual processing.

This Standard is a part of a series of standards which will describe test methods for the constancy of properties of various subsystems of diagnostic X-ray equipment, as described in IEC 61223-1.