

«Gold Standard» Mammographic Contrast - Detail Phantom CDMAM 3.4



Quality control for digital mammography systems

Introduction

In mammography it is essential that objects with very small contrast and diameter can be distinguished. Therefore the quality of the technical aspects of the mammography equipment should be monitored at regular time-intervals. The CDMAM 3.4 Phantom is specially developed to facilitate this task in mammography systems, i.e. detecting very low contrast and detecting very small details.

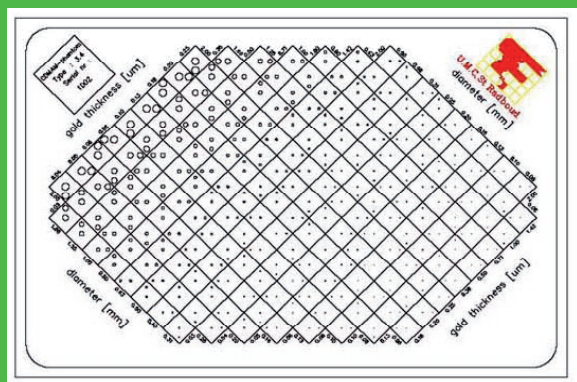
Features

- Aid for improving image quality
- Described in the «European Protocol for Digital Mammography»
- Monitors the image information content
 - Contrast-Detail curve/detectability
 - Tests low contrast and spatial resolution

Applications

- Determination of the optimum exposure technique
- Optimization and evaluation of digital mammography systems
- Comparison of image quality at various thicknesses of PMMA
- Comparison of image quality with various film-screen combinations
- Determination of the optimum background density
- Comparison of different mammography systems

Technical specifications



3 mm Aluminum tablet with 100 cylindrical holes

- 0.5 mm Aluminum (99.5%) base
- Pure Gold discs
 - Thickness 0.03 ... 2.00 µm (16 exponential steps)
 - Diameter 0.06 .. 2.0 mm (16 exponential steps)
- PMMA Cover 162 * 240 mm
- Four 10 mm thick PMMA plates with identification markers

Note:

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The Philosophy of Precision & Simplicity.

Manufacturer:

Artinis Medical Systems B.V.
St. Walburg 4
6671 AS Zetten
The Netherlands

Sales Contact:

Germany
IBA Dosimetry GmbH
Bahnhofstr. 5
90592 Schwarzenbruck
Tel.: +49 9128 607 0
Fax: +49 9128 607 10

USA

IBA Dosimetry America
3150 Stage Post Drive, Suite 110
Bartlett, TN 38133
Tel.: +1 901 386 2242
Fax: +1 901 382 9453

Sweden

IBA Dosimetry AB
P.O. Box 1004
751 40 Uppsala
Tel.: +46 18 18 07 00
Fax: +46 18 12 75 52

China

IBA Dosimetry China
No.6, Xing Guang Er Jie Beijing
OPTO-mechatronics
Industrial Park (OIP),
Tongzhou District
Beijing 101111
Tel.: +86 10 8080 9288
Fax: +86 10 8080 9299

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