

CDMAM 3.4 & Analyser

The CDMAM 3.4 is the quality control phantom for evaluation of imaging performance of analog and digital mammography system. The CDMAM 3.4 phantom is considered to be the world gold standard and is described in the European Protocol for quality assurance in Digital Mammography and other protocols for routine and acceptance testing. In mammography, it is essential that objects with very small contrast and diameter can be distinguished. The quality of the technical aspects of the mammography equipment should be monitored at regular time-intervals. The CDMAM 3.4 and its image analysis software are specially designed for this task.



Applications

- Optimization and evaluation of digital and analog mammography systems
- Determination of the optimum exposure technique 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

Specifications

- Pure Gold discs
- Thickness 0.03 .. 2.00 μm (16 exponential steps)
- Diameter 0.06 .. 2.0 mm (16 exponential steps)
- PMMA cover (240 x 162 x 3 mm)
- 0.5 mm Aluminium (99.5%) base
- Includes 4 PMMA plates (10 mm polished appearance, thickness tolerance ± 0.1 mm)

Standards & guidelines

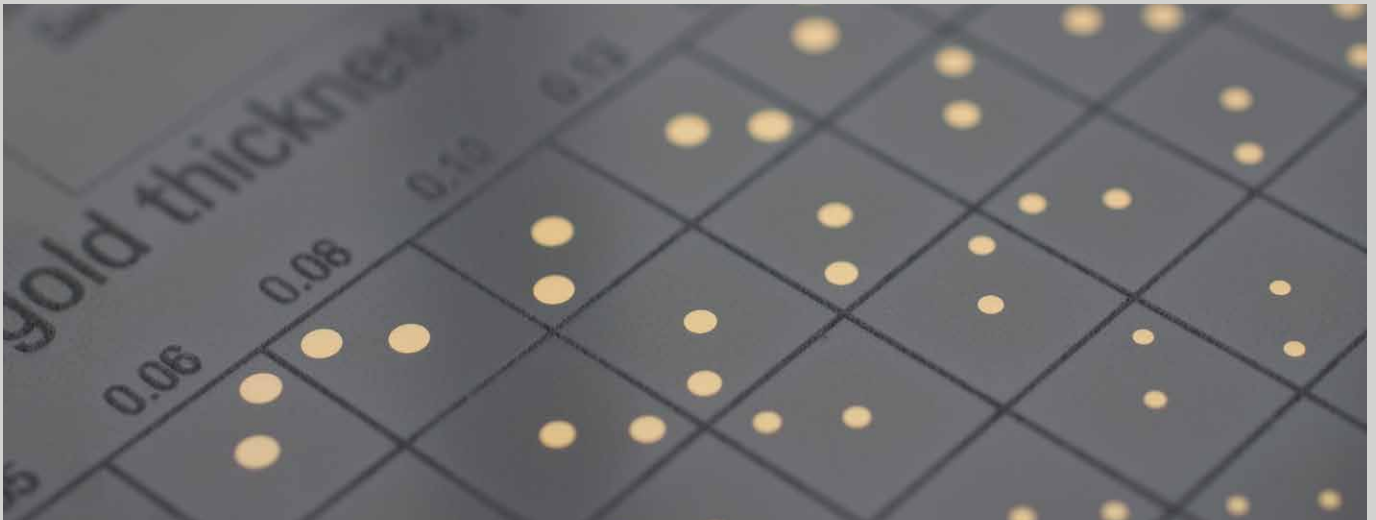
- European guidelines for quality assurance in breast cancer screening and diagnosis, fourth edition
- European Protocol for the Quality Control of the Physical and Technical Aspects of Digital Breast Tomosynthesis Systems version 1.03
- NHSBSP Equipment Report 0604, Commissioning and Routine Testing of Full Field Digital Mammography Systems Published April 2009 (Version 3)
- IEC 61223-3-2

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CDMAM 3.4 Analyser Software

The CDMAM 3.4 image analyser software version 2.3 is using the current methodology for analysis of the CDMAM 3.4 images according to the supplement to the European Guidelines for Quality Assurance in Breast Cancer Screening and Diagnosis. The program makes use of CDCOM, which is developed by EUREF for independent, reliable image analysis.



Software features

- Fast, objective Image Evaluation
- Multiple groups with images to compare over period changes
- Batch analysis of many images
- Automatic Report Generation
- Shows in between results (score diagram, psychometric curves, individual CD curves)
- IQFInverse scores and Total detected (%) number of gold discs are shown
- Drag and drop images to the software
- Images can be viewed and inspected by zooming in

Image evaluation method

- Accumulate the results of the automatic EUREF readout software CDCOM
- Determine the psychometric curves
- Detect the threshold thickness of the different diameters
- Correct to human readout values
- Calculate the contrast detail (CD)

Requirements

- Image format: DICOM
- Free usb port needed
- Runs on Windows 7, 8, and 10
- In combination with the CDMAM 3.4 Phantom

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