

Contrast - Detail Phantom

CDRAD 2.0



Quality control for radiological systems

Introduction

Most definitions of image quality in radiology are based on characterizing the physical properties of the image chain. However, medical diagnosis is not made by the image alone. The perception by the observer is crucial for the result. A test of the observers perception is possible with so called Contrast-Detail (CD) phantoms. With a CD-phantom it is possible to quantify both, detail and contrast, as observed by the radiologist. The CD-RAD 2.0 phantom can be used within the entire range of diagnostic imaging systems, such as fluoroscopy and digital subtraction angiography.

Features

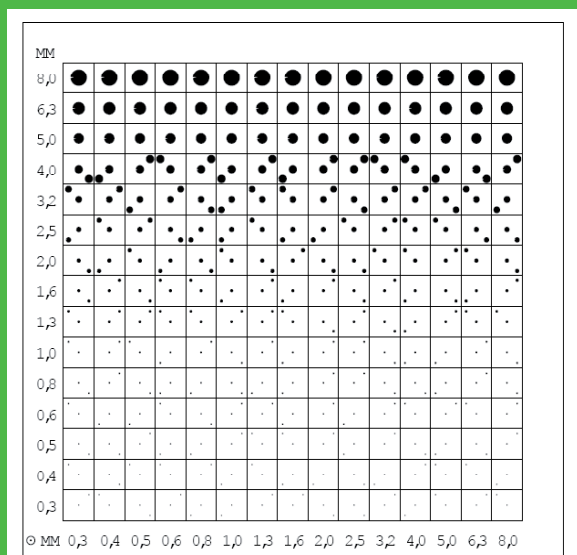
- Aid for improving image quality
- Monitors the image information content
 - Contrast-Detail curve/detectability
 - Tests low contrast and spatial resolution

Applications

- Determination of the optimum exposure technique
- Optimization and evaluation of digital radiology systems
- Comparison of the image quality at various thicknesses of PMMA
- Comparison of the image quality versus dose relation
- Determination of the optimum background density
- Comparison of different radiology systems



Technical specifications



- Two cylindrical holes for each combination
 - Depth 0.3 .. 8.0 mm, ± 0.02 mm
(15 exponential steps)
 - Diameter 0.3 .. 8.0 mm, ± 0.02 mm
(15 exponential steps)
- Overall thickness 10 mm
- Four different versions available

Note:

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The Philosophy of Precision & Simplicity.

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