

2D Low-Contrast Resolution Phantom

The 2DLC provides the opportunity to evaluate low contrast resolution in CT and FD-CT and to optimize tube current, collimation, pitch and image reconstruction for the desired low-contrast resolution in all types of clinical applications.

The Phantom has been designed to evaluate the imaging capabilities of 3D X-ray imaging modalities in the x/y-plane. CT-scanners low-contrast resolution capabilities can be obtained by a single spiral scan using axial images and coronal reformations. The phantom visualizes the impact of all scan, image reconstruction, and display parameters.

Two series of different low-contrast cylinders with diameter varying from 5 mm to 15 mm are located in the 100 mm diameter cylindrical body of homogeneous tissue-equivalent material.

Specifications

Phantom diameter 100 mm
Phantom length 100 mm
Phantom weight 0.9kg
Material tissue-equivalent plastic,
typ. 35HU (120 kV)

Contrast inserts -10 HU and -20 HU
relative to background

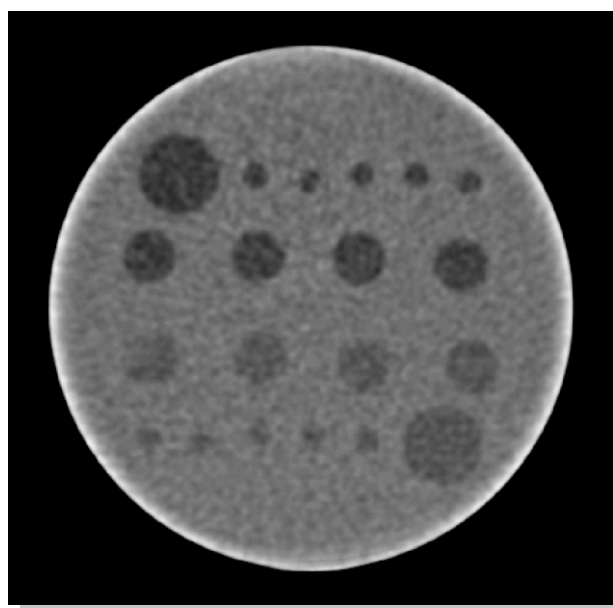
Cylindrical contrast inserts for each contrast:

- 5x 5 mm
- 4x 10 mm
- 1x 15 mm

Accuracy ± 1 HU of specified values



2DL with different contrast cylinders of -10 HU and -20 HU!



CT-scan of the QRM-2DLC