

3D Low-Contrast Resolution Phantom

QRM-3DLC

provides the opportunity 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 as well as in the axial-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.

Several series of low-contrast spheres with diameter varying from 3 mm to 8 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 or -20 HU
 relative to background

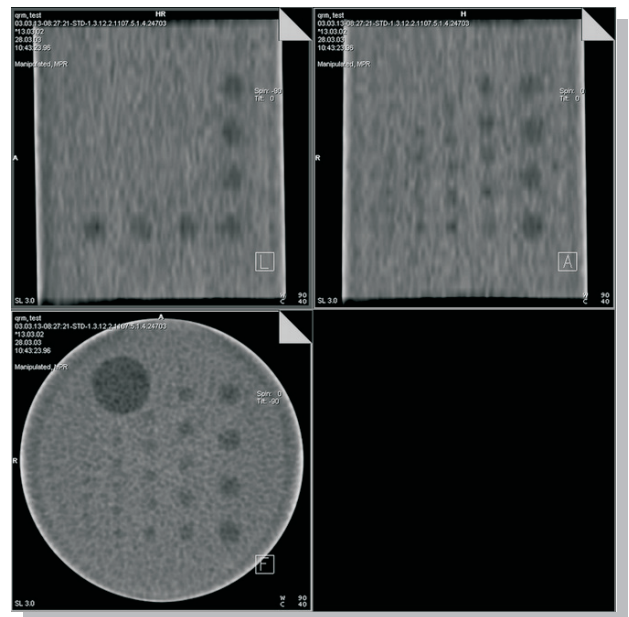
Cylindrical contrast insert diameter 20 mm,
 length 25 mm

Spherical contrast insert
 9 spheres diameter 3 mm
 9 spheres diameter 4 mm
 9 spheres diameter 5 mm
 9 spheres diameter 6 mm
 7 spheres diameter 8 mm

Accuracy ± 1 HU of specified values



Contrast of -10 HU or -20 HU available!



Multiplanar Reformation (MPR) of the QRM-3DLC

