

# 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.

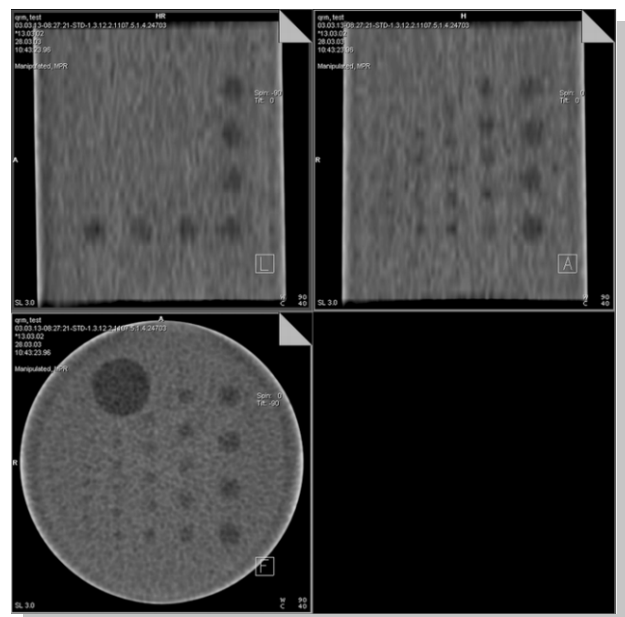
Several series of low-contrast spheres with diameter varying from 3 mm to 8 mm are located in the 100 mm diameter cylindrical body of homogeneous tissue-equivalent material.

### 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



Contrast of -10 HU or -20 HU available!



Multiplanar Reformation (MPR) of the QRM-3DLC

