

QUART Biopsy Phantom

# Phantom for Stereotactic Biopsy Systems in Digital and Analogue Mammography





# QUART Biopsy Phantom

Complies with national and international QA Standards

The *QUART Biopsy Phantom* is designed for regular QA/QC at stereotactic biopsy systems in digital and analogue mammography. Its design is optimised for all common image formats and fields-of-view (FoV) from 4x4cm. The phantom's integrated test objects are laid out for comprehensive QA/QC testing.

The *Biopsy Phantom*, and also the *QUART Q-Vision Phantom/Dosimeter* combination, allow checks on actual low-contrast properties. Low-contrast resolution can be verified down to the perceptibility limit, thus providing a solid base for precise equipment calibration.

For an assessment of resolution, QUART's unique Landolt Ring objects are integrated in the phantom. Similar to the gold structures of the CDMAM phantom, the Landolt Ring structures are meant to verify contrast and perceptibility limits. However, the Landolt objects are developed to compare better to the morphology of microcalcifications than other test objects of contemporary mammography QA/QC phantoms.

One exposure is sufficient to acquire all test parameters! The phantom is required to test equipment used in National Mammography Screening Programmes.

## Elements of the Test Phantom

- \_ Phantom Thickness: 46 mm PMMA
- \_ Phantom Dimensions: 80x70 mm (LxH)
- \_ Landolt Ring Structures (1 group - 6 objects)
- \_ Dynamics Step (4 Steps)
- \_ Low-Contrast Objects (4 object details in the step)
- \_ Low-Contrast Dynamics Wedge; pre-defined wedge constant
- \_ 2 Fields for pixel value measurement / homogeneity measurement
- \_ Horizontal Ruler; 10mm division

## Test Parameters

- \_ Visual Spatial Resolution
- \_ Low-Contrast
- \_ Minimum Contrast (Perceptibility Limit)
- \_ Lateral Homogeneity
- \_ X-Ray Field Collimation
- \_ Artefacts / Image Flaws

## Included in the Delivery:

- ✓ *QUART Biopsy Phantom*
- ✓ Constancy Test Forms
- ✓ User Guide
- ✓ Transport Case

## Also Available:

**QUART Q-Vision**                      Constancy Test System for Stereotactic Biopsy Systems  
(Features integrated Dose Reference Measurement)

