

QUART DSA

DSA QA/QC Test Phantom



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QUART DSA

Test Phantom for QA/QC in Digital Subtraction Angiography

The QUART DSA phantom is designed for maximum precision in QA/QC of Digital Subtraction Angiography equipment. It is a Type B design which maximises QC performance in subtraction angiography applications.

Unique in its kind, the phantom features longitudinal sliding technique to minimize structural movement artefacts in the picture. In comparison, Type C phantoms, which are more common in the QA market, can exceed artefact limits caused by transversely forced movements.

After simulating the injection process, the QUART DSA immediately reveals the lateral borders of the contrast wedge. The low contrast steps are clearly visible and can be well defined in the test image.

The phantom complies with DIN 6868-4, -8, -54 & IEC 61223-3-3.

Phantom Description

- _ Phantom Dimensions: 150x150x57 mm (LxWxH)
- _ Clearance for movable slider: 90x10 mm (WxH)
- _ Slider: PMMA 300x90x9.5 mm (LxWxH)
- _ Vessel Simulation: 4 aluminium strips
(Purity: 99.5% (guaranteed); Thickness: 0.05 / 0.1 / 0.2 / 0.4 mm; Width: 10 mm each / Distance: 10 mm between each)
- _ Dynamics Wedge: 7 copper steps (0.2 – 1.4 mm)
- _ Level Test to check Logarithm Correctness: (1 step of copper 0.2 mm)
- _ Pneumatic Remote Control (Length: 7m)

Test Parameters

- _ Dynamic Range
- _ Contrast Sensitivity
- _ Artefacts
- _ Attenuation Compression (Logarithmic Compression)
- _ Visual Spatial Resolution (in combination with Type 38 Bar Test Pattern)
Test Pattern properties: 45° / 0.05 mm Pb / 20 line pair groups / 0.6 – 5.0 Lp/mm
Position: Central on Step No. 4 – diagonal arrangement (recomm.)

Delivery includes

- ✓ QUART DSA Test Phantom
- ✓ Manual
- ✓ Transport Case with Foam Insert



QUART
Quality Assurance in Radiological Technologies