

PRECISE DOSE MEASUREMENT FOR CT IMAGING SYSTEMS

RSD's CTDI QA Phantom is a high-quality tool featuring two large PMMA cylinders that simulate an adult head and body, with the adult head section designed to nest inside the body section for realistic imaging evaluations. Sold separately, a pediatric head phantom is available for testing on pediatric CT scans and fits into the adult head section.

Product Features & Benefits

Comprehensive Measurement Capabilities: Measures DI, CTDI₁₀₀, CTDI_w, CTDI_{vol}, and CTDI_{free air} for effective dose management across protocols

Exceptional Accuracy: Ensures precise, consistent CTDI measurements for regulatory compliance and QA

Adult & Pediatric: Simulates adult head and body with a supplemental pediatric head that fits within the adult head and is sold separately

Flexible Design: Accommodates various CT scanner models and adapts to different scanning protocols

User-Friendly Interface: Simple setup with clear instructions for quick use by operators of all experience levels

Advanced Material Construction: Durable, tissue-mimicking materials for accurate dose distribution assessment

Specifications & Accessories

- Body Diameter: 320 mm
- Adult Head Diameter: 160 mm
- Pediatric Head Diameter: 80 mm
- Cylinder Length: 145 mm
- Cylinder Holes: 8, 10, 13 mm diameter radiation detectors
- PMMA Plugs
- Alignment Markers
- Comprehensive Product Manual
- Sturdy Carrying Case



Standards Compliance

IEC 61223-3: Evaluation and routine testing in medical imaging departments - Part 3: Acceptance and constancy tests - **Section 5:** Imaging performance of computed tomography X-ray equipment; **Section 6:** Imaging performance of mammographic X-ray equipment used in a mammographic tomosynthesis mode of operation | **IEC 60601-2-44:** Medical electrical equipment - Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography | **21CFR 1020.33:** Code of Federal Regulations - Title 21: Food and Drugs - Part 1020: Performance Standards for Ionizing Radiation Emitting Products - Section 33: Computed tomography (CT) equipment

Model Numbers

QA-CT010: CTDI QA Phantom (Adult & Pediatric)

QA-CT011: CTDI QA Phantom (Adult)

QA-CT012: CTDI QA Phantom (Pediatric)

