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CT ERF Phantom HIT

Item No.	PH-55
Weight	4.5kg
Brand	KYOTO KAGAKU, JAPAN

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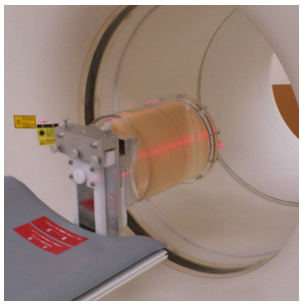
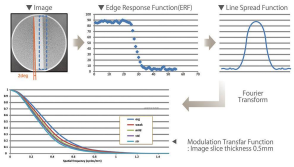
SKU:

Categories: Radiology Phantom





Product Description

A phantom designed for physical evaluation of iteratively reconstructed images under low CNR

Features	1.The phantom is designed to physically and quantitatively evaluate iteratively reconstructed images in the low CNR area, such as abdomen, where MTF of PSF is less useful / 2.The phantom uses edge spread function (ESF) to calculate MTF of the low CNR images, which facilitate assessing performance properties of iteratively reconstructed images under low CNR
Set includes	1 cylindrical container (200 mm dia.) / 5 measurement plates / 1 rotation holder / 1 fixture for the cylindrical container /1 angle adjustment holder / 1 philips screwdriver / 1 petroleum jelly / screws (spare) / 1 storage case / manual
Size (approx.)	dia. 200×250 mm
Weight (approx.)	4.5kg
Materials	Acrylic resin, polyurethane
Optional parts	41919-010 Angle adjustment holder (table-top type)
APPLICATIONS	CT
Update	August 10, 2020

CT ERF Phantom HIT (PH-55) — Low CNR Image Quality Evaluation for Iterative Reconstruction

The CT ERF Phantom HIT (Item No. PH-55, 4.5 kg) by Kyoto Kagaku, Japan is purpose-built to physically and quantitatively evaluate iteratively reconstructed images in low contrast-to-noise ratio (CNR) areas — such as the abdomen — where traditional MTF-of-PSF evaluation methods are less useful.

A more accurate evaluation method for modern reconstruction techniques. The phantom uses edge spread function (ESF) to calculate MTF for low CNR images, giving institutions a way to properly assess the performance properties of iteratively reconstructed CT images under low-contrast conditions — an increasingly important QA need as more institutions adopt iterative reconstruction to reduce radiation dose.

What's included: cylindrical container (200mm diameter), 5 measurement plates, rotation holder, fixture for the cylindrical container, angle adjustment holder, Phillips screwdriver, petroleum jelly, spare screws, storage case, instruction manual.

Materials: acrylic resin, polyurethane. **Size:** 200mm diameter × 250mm.

Optional part: angle adjustment holder, table-top type — for institutions that prefer a table-mounted setup over the standard configuration.

Training application: CT.

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Frequently Asked Questions

Q: Why is this phantom needed for iterative reconstruction evaluation specifically? A: Traditional MTF-of-PSF evaluation methods are less useful in low CNR areas like the abdomen. This phantom uses edge spread function (ESF) instead, giving more accurate performance evaluation for iteratively reconstructed images under these conditions.

Q: Is a table-top mounting option available? A: Yes — an optional table-top type angle adjustment holder is available separately.

Contact us at sem@semtrainers.com or call +91-88495 63724 for pricing and availability.