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Wisconsin Institutes for  
Medical Research

University of And  
Wisconsin-Madison  
Madison USA ISSN

1618-7210 ISSN

2197-5647 (electronic)

ISBN

978-1-4614-8303-8

ISBN

978-1-4614-8304-5



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phantom An object of  
specifically known  
dimensions and  
structural properties  
used to test or monitor  
an MRI system's  
homogeneity, imaging  
performance and  
orientation. phantom  
Radiology A mass or  
dummy that

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approximates tissues  
in its physical  
properties that may be  
used to calibrate or  
determine the dose of  
radiation applied to a  
tissue.

**Phantoms |** And  
**definition of**  
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Imaging phantom, or  
simply phantom, is a  
specially designed  
object that is scanned  
or imaged in the field

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of medical imaging to evaluate, analyze, and tune the performance of various imaging devices. A phantom is more readily available and provides more consistent results than the use of a living subject or cadaver, and likewise avoids subjecting a living subject to direct risk.

## **Imaging phantom - Wikipedia**

The phantom was

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developed for testing and optimizing dose and image quality and for training of medical and technical staff.

Adipose and glandular tissue equivalency The phantoms are manufactured from virtual data (1, 2) containing adipose and glandular tissue. Minor variations in size and design can occur.

## **Breast Phantoms — PhantomX**

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In the biomedical research community, medical imaging phantoms are objects used as stand-ins for human tissues to ensure that systems and methods for imaging the human body are operating correctly. NIST develops and disseminates phantoms as part of an ongoing effort to help ensure that medical images provide reliable

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Phantoms Of  
and quantitative  
(measurable)  
information, not just  
nice pictures.

## Devices For

### **What are Imaging Phantoms? | NIST**

Phantoms, devices that  
represent the human  
body, have been used  
in medical physics and  
health physics since  
the beginning. Soon  
after the discovery of X-  
rays, news of the  
medical benefits of...

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unique issues such as organ-specific radiation dose from sources distributed in other organs.

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Fluoroscopy phantoms are the most widely used since fluoroscopy systems are gaining popularity as they offer high-quality images. In addition, players in the



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Phantoms Market  
Size | Industry  
Report, 2027

market are developing an all-in-one medical imaging phantom to provide high efficiency for various medical imaging devices and a more cost-effective solution.

## Medical Imaging Phantoms Market Size | Industry Report, 2027

"The purpose and subject of this book is to provide a comprehensive

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The Medical Imaging  
Phantoms Market  
report focuses on the  
global key companies  
(PTW Freiburg, Gold  
Standard Phantoms,  
Kyoto Kagaku, Pure  
Imaging Phantoms,  
Computerized Imaging  
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## Biomedical Engineering

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