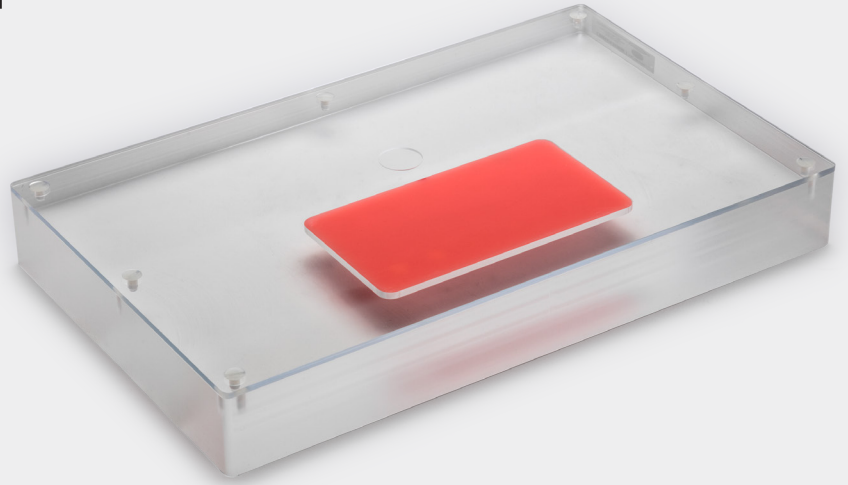


Mammo **FFDM**TM Phantom

Evaluate artifacts over the entire detector with a single image.



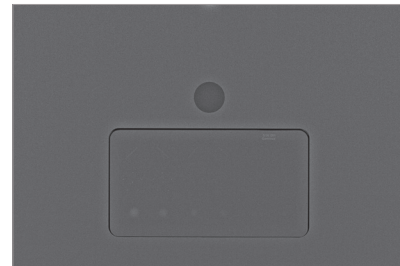
- Efficiently detect objects from 0.14 to 1.0 mm
- Reduce backscatter and equalize attenuation¹
- Comply with EUREF², MQSA (FDA) and ACR guidelines
- Ensure system optimization for Full Field Digital Mammography

The Mammo FFDM Phantom is the new ACR accreditation phantom for quality assurance (QA) in mammography. It was developed in cooperation with Gammex, the innovators behind the Mammo 156TM Phantom—the gold standard QA solution for breast health.

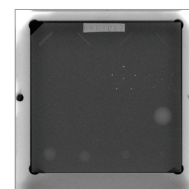
Simplify Testing and Save Time

The Mammo FFDM Phantom is designed to evaluate artifacts over the entire detector with a single image, supporting quick detection of objects from 0.14 to 1.0 mm.*

The Mammo FFDM Phantom was evaluated and accredited by the ACR, and is also referred to as the ACR Digital Mammography Phantom. The Mammo FFDM Phantom simulates radiographic characteristics of compressed breast tissue, including micro-calcifications, ductal fibrous structures and tumor-like masses. Identification of these small structures is essential to the early detection of breast cancer.



Mammo FFDM Phantom



Mammo 156 Phantom

Our Mammo FFDM Phantom has more challenging and sensitive targets than our proven Mammo 156. And it will help decrease QC time with simplified testing and documentation.

Pending approval by the ACR

¹<http://www.fda.gov/Radiation-EmittingProducts/MammographyQualityStandard...> 3/8/2016

²European protocol for the quality control of the physical and technical aspects of mammography screening v2.

* Based on internal testing; Applicable to most mammography systems; Best-suited for large detectors.

The FDA has determined that the ACR's quality control manual is, as required in 900.18 (a)(1): Alternative Requirements, "at least as effective in assuring quality mammography" as following the manufacturers' QC manuals.



Improve Efficiencies for Physics Reviewers

- Single image provides scores and artifacts for all relevant test results
- Decrease time at facilities with simplified testing and documentation

Evaluate Image Quality and Detect Artifacts

- Evaluate artifacts using the same window width (WW) and window level (WL)
- Equalize attenuation inside and outside the wax insert
 - Permits evaluation of artifacts over the entire phantom area
- Maintain accreditation

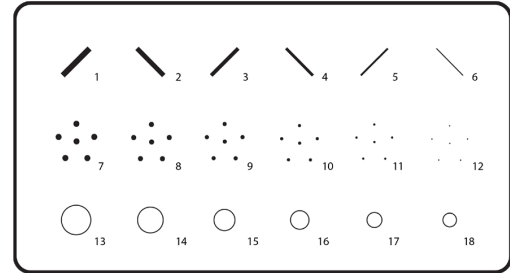
Specifications

Wax and acrylic equivalent to 4.2 cm thick compressed breast tissue. 50% adipose and 50% glandular. Permits testing of 3.0 mGy dose limit.

Mammography Phantom:	FFDM
Nylon Fibers (Fibrils):	6
Micro-calcifications (Specks):	6 Groups, Al ₂ O ₃
Masses:	6
Dimensions (L/W/H):	31.0 ± 0.1 x 19 ± 0.1 x 4.1 ± 0.03 cm
Dimensions: Wax Insert (L/W/H):	12.98 (+0, -0.04) x 6.98 (+0, -0.04) x 0.7 ± 0.02 cm
CNR Cavity Depth:	0.1 ± 0.005 cm
CNR Diameter:	± 0.05 cm
Compensator:	9 mil Polyvinylidene

Wax Insert Test Objects

Fibers Diameter (mm)	Specks Diameter (mm)	Masses Diameter (mm)
0.89 ± 0.05	0.33 ± 0.0100	1.00 ± 0.05
0.75 ± 0.03	0.28 ± 0.0083	0.75 ± 0.05
0.61 ± 0.03	0.23 ± 0.0069	0.50 ± 0.05
0.54 ± 0.03	0.20 ± 0.0059	0.38 ± 0.04
0.40 ± 0.03	0.17 ± 0.0084	0.25 ± 0.03
0.30 ± 0.03	0.14 ± 0.0070	0.20 ± 0.02



Case for easy & secure storage



A Full Line of Mammography QA Tools

Choose from kits that include everything you need to start a program, to kits for routine QC. Or select from a Tomosynthesis phantom, disposable breast biopsy training phantoms, a breast compression device that measures compression force or phototimer consistency tools that test Automatic Exposure Control (AEC).