

Single Exposure High Contrast Resolution Phantom

MQSA Item

Perform QC inspections of mammography system resolution with just one exposure!

The CIRS Model 016A incorporates two 17.5 micron thick gold-nickel alloy bar patterns. (Model 019-500) These bar patterns are positioned at 90 degrees to allow assessment of resolution perpendicular and parallel to anode-cathode axis in just one exposure. The targets have 17 segments from 5 lp to 20 lp/mm and are equivalent to 25 microns of lead or 2.6 mm of aluminum at 20 keV.

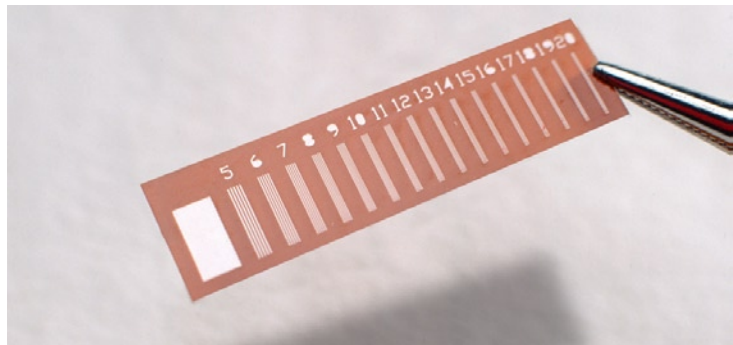
The patterns are permanently embedded in a thin acrylic wafer (Model 016AW) to protect them from wear or damage.

The phantom body is available in BR12 or BR50/50. It enables consistent, reproducible positioning at 4.5 cm above the breast support plate and 1 cm from the chest wall, centered laterally (as recommended by the American College of Radiology).

The Model 016A includes a 30x hand held microscope and handling instructions.



Model 016A Set (Microscope Not Shown)



019-500 Line Pair Test Pattern

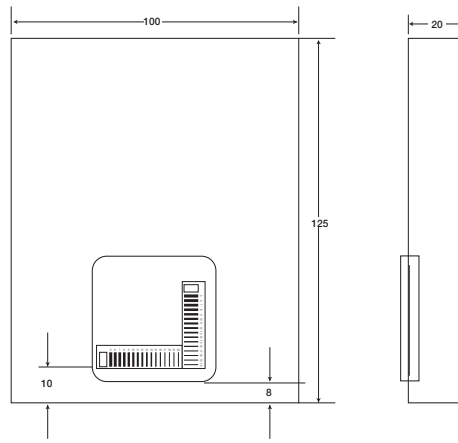
Model 016A Specifications:

BODY

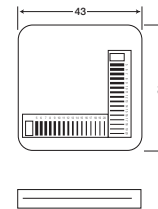
Material: BR12 or BR50/50
 Length: 125 mm
 Width: 100 mm
 Height: 20 mm

TARGET

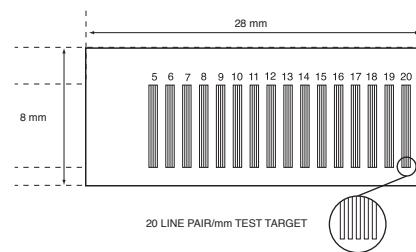
Material: Gold/nickel construction (equivalent to 25 microns lead or 2.6 mm aluminum) embedded in acrylic.



Slab Layout with Acrylic Target



**Acrylic Target
(016AW)**



(019-500)

Items included with Model 016A

Part No.	Quantity	Component Description
016A Set	1	12.5 cm x 10 cm x 0.5 cm Slab
	1	12.5 cm x 10 cm x 2 cm Slab
	1	12.5 cm x 10 cm x 2 cm Slab with cutout for Acrylic Target
016AW	1	Acrylic Target
	1	30x Handheld Microscope

Please indicate either BR12 or BR50/50 Slab Composition when ordering