

# NEMA SCA&I Cardiovascular Fluoroscopic Benchmark Phantom

Model 901



## ***FOR VOLUNTARY COMPLIANCE WITH NEMA XR 21***

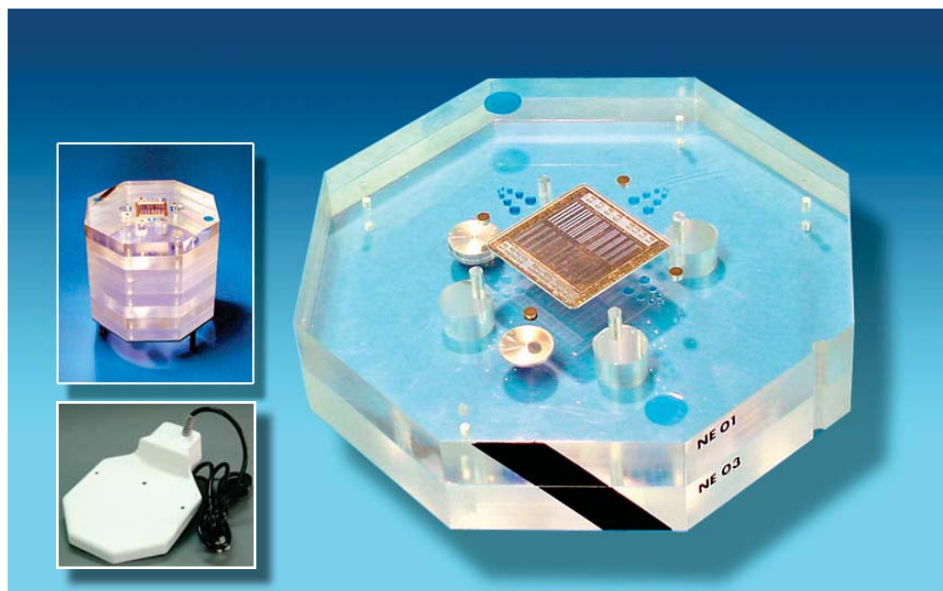
The CIRS Model 901 NEMA-SCA&I phantom was designed to evaluate and standardize catheterization image quality. It is the result of collaborative efforts between the Society for Cardiac Angiography and Interventions and the National Electric Manufacturers Association. The phantom specifically enables voluntary compliance with performance standard NEMA XR21.

The Model 901 is manufactured from PMMA with X-ray absorption properties similar to soft tissue at diagnostic energies. It contains a variety of static and dynamic test targets for objective assessment of resolution, motion unsharpness and radiation exposure. The sectional design allows for configuration in a wide range of thicknesses from 5 to 30 cm simulating PA thicknesses from infants to large adult patients.

The phantom is ideal for routine assessment of the entire imaging system.

### ***Features***

- Designed for voluntary compliance with NEMA XR 21
- Simulates coronary arteries for infant through large adult
- Evaluate spatial resolution, motion unsharpness and exposure for the entire imaging system



Model 901-01, 901-03, and 901-13. Model 901-13 Rotating Spoke Target is included with phantom, but can also be purchased separately.

## SPECIFICATIONS

<b>DIMENSIONS:</b>	40.6 cm x 25.4 cm x 25.4 cm (16" x 10" x 10")
<b>PHANTOM WEIGHT:</b>	20.4 kg (45 lb)
<b>MATERIALS:</b>	PMMA

## MODEL 901 INCLUDES

QTY	PART NUMBER	DESCRIPTION
1	901-01	Central Target Assembly
1	901-02	Working Thickness Range (WTR) Plate A
1	901-03	WTR Plate B
1	901-04	WTR Plate C
3	901-05	WTR Plate D
1	901-06	WTR Plate E
4	901-07	Blank Plate with alignment parts
1 (ea.)	901-08/ 08A	Field Size Plate
1	901-09	Alignment Target for Test Stand
1	901-10	Alignment Cross for Test Stand
1	901-11	Alignment Target for small base
1	901-12	Alignment Cross for small base
1	901-13	Rotating Spoke Target (115 VAC 60 Hz)
1	901-14	Test Stand
1	901-15	Small Base
1	901-16	3 mm thick lead plate with laminate
1	901-17	2 mm thick copper plate with laminate
1	901-CS	Carry Case
35	-	Alignment Pins

## OPTIONAL ACCESSORIES

PART NUMBER	COMPONENT DESCRIPTION
901-C	Step Down Transformer (220V)
901-19	Optional Artery Slot Block for Model 901
903-06*	Artery Block with Iodine (15 mg/ mL)
903-07*	Artery Block with Iodine (150 mg/ mL)

\*Must purchase Model 901-19 Optional Slot Block to use this accessory with Model 901 NEMA SCA&I Phantom.

Refer to NEMA publication NEMA XR 21 Characteristic of and Test Procedures for a Phantom to Benchmark Cardiac Fluoroscopic and Fluorographic Performance.

### ARTERY BLOCK WITH IODINE (903-06 & 903-07)

