

Accreditation Phantom for Uniformity

Model 551



ESSENTIAL COMPONENT OF A ROUTINE QC PROGRAM

A continuous QC program identifies problems before they impact the diagnostic value of ultrasound exams and assures equipment is functioning properly. Research has demonstrated that the most common failure in the ultrasound imaging system is the transducer as they are easily damaged by stress, dropping and kinked cables¹. Accreditation programs now recommend all scanners and all transducers be tested quarterly and must be tested at least semiannually by performing an image uniformity and artifact survey².

The CIRS Model 551, Accreditation Phantom for Uniformity, aids appropriately trained personnel in identifying the presence of lateral and/or axial streaks, i.e. artifacts, on any ultrasound transducer. Presence of artifacts is an indication of transducer damage and triggers corrective action.

Our phantom consists of a uniform block of Z-Skin™ that is elastic enough to conform to any shape transducer. Z-Skin is durable enough to withstand the probe pressure to maintain coupling with all the elements of even the tightest curvilinear arrays.

Benefits

- Simple, compact design makes phantom easy to transport and store
- Cost-effective solution to fulfill accreditation Routine QC Program requirements
- Durable materials for extended phantom life
- Soft phantom material conforms to shape of most ultrasound transducers

1. Hangiandreou NJ, Stekel SF, Tradup DJ, Gorny KR, King DM. Four-year experience with a clinical ultrasound quality control program. *Ultrasound Med Biol.* 2011;37(8):1350-7.

2. American College of Radiology. (2013, October 28). *Ultrasound Accreditation Program Requirements.* Retrieved from <http://www.acr.org/~media/ACR/Documents/Accreditation/US/Requirements.pdf>

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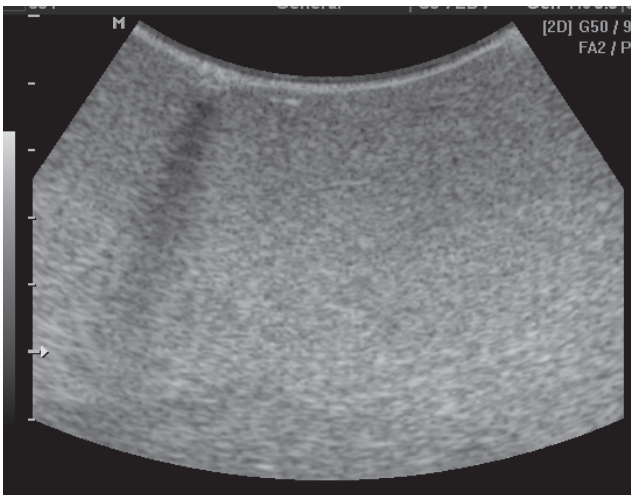
Tissue Simulation & Phantom Technology



Ultrasound scan of CIRS Accreditation Phantom for Uniformity using Linear Transducer.



Ultrasound scan of CIRS Accreditation Phantom for Uniformity using Curved Array.



Accreditation Phantom for Uniformity ultrasound image with dead element.

SPECIFICATIONS

DIMENSIONS	Ø 11.2 cm x 7.5 cm
PHANTOM WEIGHT	2.2 lbs. (1 kg)
MATERIALS	Z-Skin™ elastomer

MODEL 551 INCLUDES

QTY	COMPONENT DESCRIPTION
1	Accreditation Phantom for Uniformity
1	User Guide
-	48-Month Warranty