

FOR IMMEDIATE RELEASE

Press Contact
Eryn Lee
900 Asbury Ave
Norfolk, VA 23513
elee@cirsinc.com

CIRS Releases Dynamic Cardiac Phantom
Evaluate Motion Artifacts in CT Angiography

May 4, 2018 (Norfolk, VA.) -The CIRS Dynamic Cardiac Phantom, Model 008C, is a precision instrument that simulates the realistic motion of an average human heart. It provides known, accurate and repeatable 3D motion of a solid heart model inside the tissue-equivalent thorax phantom. The phantom is designed as a comprehensive image analysis tool for calcification detection, iodine contrast resolution and ECG signal gating.

The cardiac phantom is constructed from a tissue equivalent thorax body, moving rod with a solid tissue equivalent heart inside, motion actuator, motion controller and CIRS Motion Control software.

The 3D movement of the heart is controlled by CIRS Motion Control software, which is installed on a Windows PC or Laptop. The software comes loaded with three basic motion profiles that are specific to different anatomical parts of the heart and one correlated ECG profile. The software can overlay respiratory motion with cardiac motion to account for total displacement of the heart. The respiratory motion can mimic either breath hold or continuous breathing of a patient.

“Our engineering team is very excited to introduce this new Dynamic Cardiac phantom to the market. With repeatable and controllable 3D heart motion, this tool could help define protocols in the cardiac field for better and safer patient imaging. In the future, we plan to adapt this tool for use in planning Cardiac Stereotactic Ablative Radiotherapy for treatment of Arrhythmias” states Kalie Brumbaugh, Engineer CIRS Inc.

The Cardiac Dynamic Phantom joins CIRS’ existing lineup of dynamic phantoms, which includes the Dynamic Thorax Phantom (Model 008A), MRI-LINAC Dynamic Phantom (Model 008M), Dynamic Pelvis Phantom (Model 008P) and Dynamic Platform (Model 008PL). Each of these products is operated using CIRS Motion Control Software.

CIRS will display the Model 008C at AAPM 2018, Booth 812.

For more information about the Dynamic Cardiac Phantom, visit www.cirsinc.com.

About CIRS

CIRS, a Castleray Company, is recognized world wide for tissue simulation technology and is the leader in the manufacture of phantoms and simulators for quantitative densitometry, calibration, quality control and research in the field of medical imaging and radiotherapy. CIRS is headquartered in Norfolk, VA (USA) and distributes products worldwide.

###

COMPUTERIZED IMAGING REFERENCE SYSTEMS, INC.

900 Asbury Ave • Norfolk, Virginia 23513 • USA • Tel: (800) 617-1177 • (757) 855-2765 • Fax: (757) 857-0523 UL Registered Firm ISO 13485:2016 10000905 MP2016 • www.cirsinc.com