

Dynamic Cardiac CT Phantom MD-CT

This cardiac phantom represents physical movement and volumetric change of the left ventricle to facilitate evaluation and research in ECG gating cardiac and thoracic CT.



Features

The heart phantom is made of human tissue substitute.

Simulated coronary arteries including stenosis can be attached to the wall of the phantom heart.

The phantom generates pulses that are synchronized with the cardiac movement for ECG gating.

Controllable parameters include pulse rate, ejection volume and ejection fraction.

Operation with the touch panel controller is simple and easy.

Evaluation Applications

Measurement of the left ventricle ejection fraction (EF)
Image quality evaluation of coronary arteries



Beam pitch and image quality



Heart phantom:
materials: polyurethane based resin
HU value: approx.40
volume: ESV=approx.47.5ml

Motion parameters:
pulse rate: 30-120 beats/min.
ejection volume: 60-100 ml.
ejection fraction: 30-60%

Specifications

Set Includes:
1 drive unit
3 heart phantom
1 protective cover
1 set of simulated coronary arteries
1 controller
1 storage case

