



**INNOVATING TECHNOLOGY  
INTEGRATING SCIENCE  
IMPROVING LIVES**

# COMPUTED TOMOGRAPHY (CT) IMAGING

## Clinical Quality Imaging in Preclinical Development

Clinical CT imaging systems can provide a valuable complement for your preclinical research and development. Through visualization and measurement tools, CT imaging can support in vivo studies in various ways, such as pre-surgical/device implant planning, real-time imaging during procedures, and post-procedural evaluations.

## CBSET's Multi-Disciplinary Approach

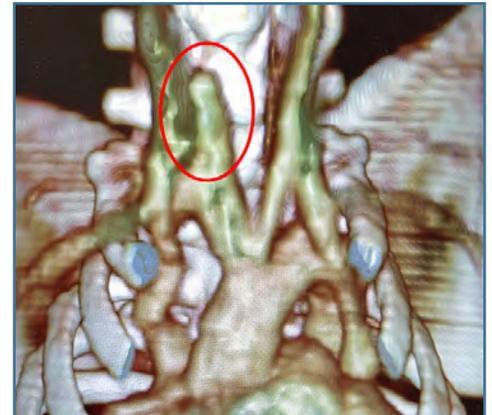
CBSET employs an 8-slice small-bore portable Samsung CereTom® CT scanner that delivers the highest quality non-contrast, angiography, and contrast perfusion scans in a variety of locations. Its combination of rapid scan time, easy-to-use interface, and immediate image viewing make CereTom® an indispensable tool for real-time, high-quality images. This system complements our Innova 2100 cardiac catheterization lab suite with Innova 3D acquisition mode, providing 3D imaging from rotational angiography.



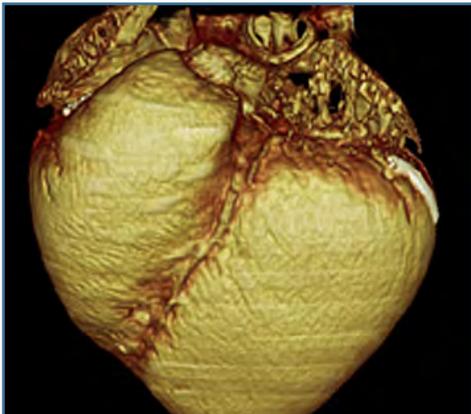
**Samsung CereTom® CT Scanner**



**Rabbit Skeletal CT Reconstruction**



**Rabbit Aneurysm Creation  
CT Reconstruction**



**Pig Heart  
CT Reconstruction**



**Human Femur with Calcified Artery  
3D Innova Reconstruction**



**Sheep Skull/Sinuses CT  
Reconstruction**

## ABOUT CBSET

CBSET is a state-of-the-art biomedical research institute located in Lexington MA.

Our mission is to advance biomedical research, through innovative, high-quality services. We combine top-tier research with operational expertise. Since our inception, CBSET has continued to develop technical and scientific acumen through collaborative projects in the medical device, pharmaceutical and academic communities. Our 40,000 square foot, GLP-compliant, AAALAC-accredited facility includes vivaria, procedure rooms, catheterization / imaging labs, surgical and necropsy suites, histopathology, SEM, and a range of other technologies.

## Why CBSET?

- **Credibility.** We are recognized as unbiased experts, bringing independent credibility to your regulatory filings.
- **Culture.** Our culture is science rather than commerce; we welcome unprecedented models and creative collaboration.
- **Mission.** As a 501(C3), non-profit corporation, our motivation is to enable your success; your product is our mission.
- **Integrated resource.** Our multidisciplinary team includes board-certified veterinary, quality, biological and quantitative sciences expertise, as well as board-certified pathologists – all in one facility.

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## Scanner Specifications and Dimensions



- X-ray beam shape: Cone beam
- Low contrast detectability: 3 mm at 0.3%
- Spatial resolution: 7 lp/cm (soft tissue kernel)/ 15 lp/cm (high res. kernel)
- Rotation time: 1 sec (helical/dynamic), 2 sec/4 sec/6 sec (axial)
- Compatible with surgical navigation, HIS, RIS, PACS

## Integrated Preclinical Research Platform

