Raycision

IMAGING 100pro

ALL-IN-ONE ULTRA-HIGH RESOLUTION MICRO-CT FOR SMALL ANIMAL IMAGING

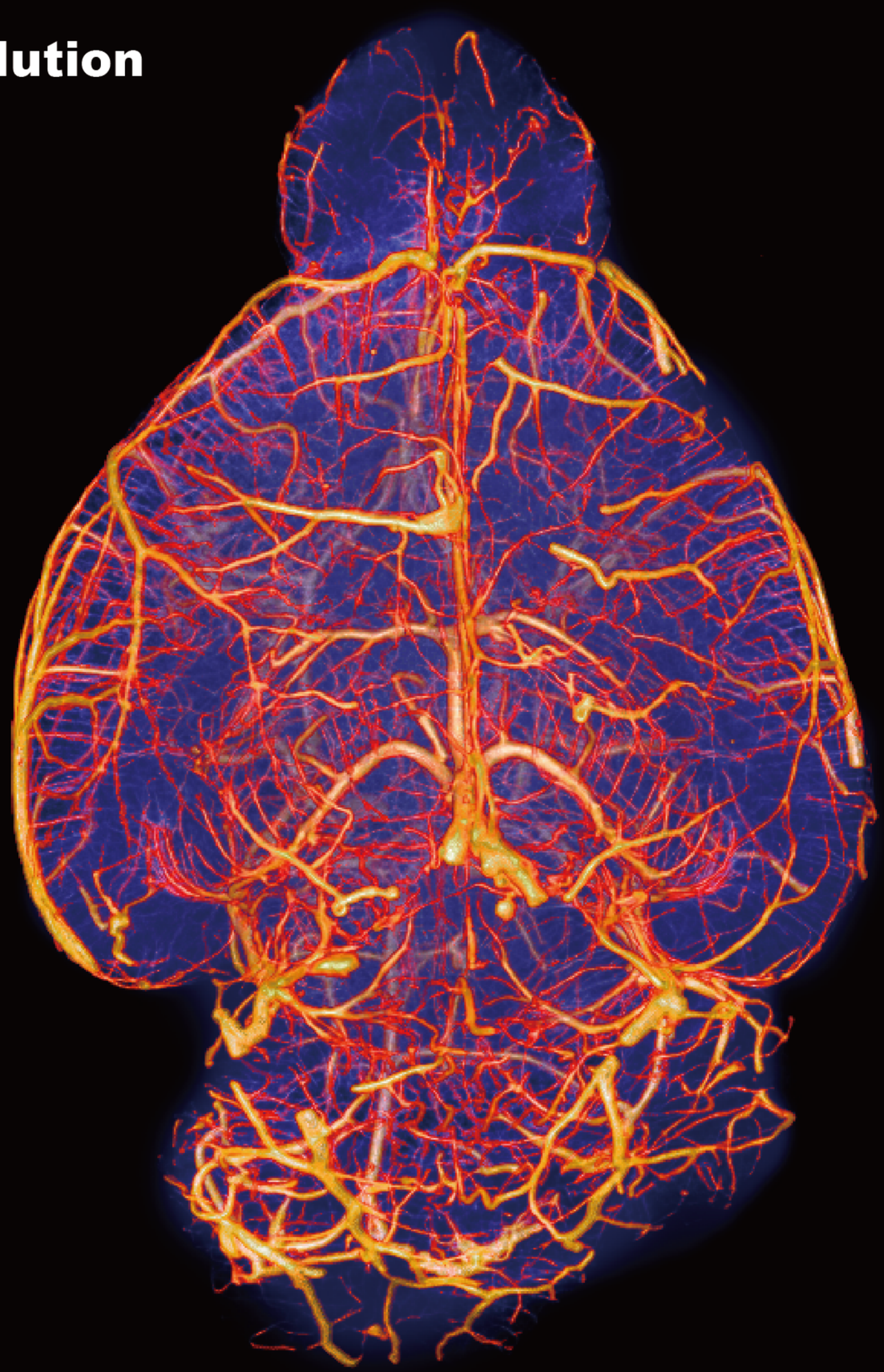
Microtomographic
Imaging System

ALL-IN-ONE VERSATILITY

IN-VIVO & EX-VIVO MICRO-CT IMAGING SYSTEM

- Ultra-High Resolution
- Extensive Field of View
- Fast Volumetric Reconstruction
- Inteligent Data Analysis
- High-Precision Gating
- Upgradable Solutions

- **Ultra-high Resolution**



Vasculature of mouse brain

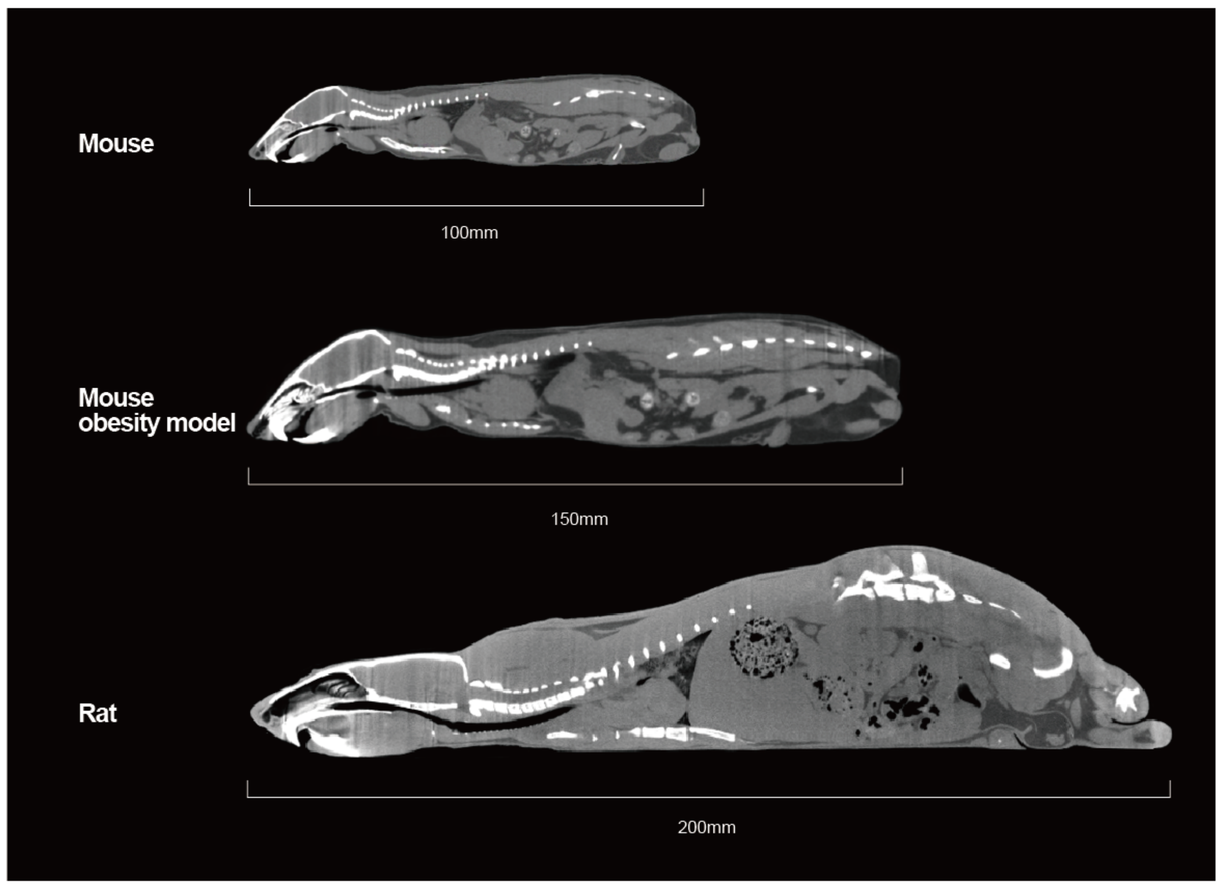
Spatial resolution: 5 μm

Next-Generation UHR Micro-CT

The IMAGING 100pro delivers exceptional spatial resolution up to 5 μm, unveiling intricate microstructures — from trabecular bone and dental enamel to microvasculature and implant interfaces — with stunning clarity.

Large Field-of-View

Flexible Scanning from whole-body large volume to high-resolution region-of-interest imaging across diverse species and samples.

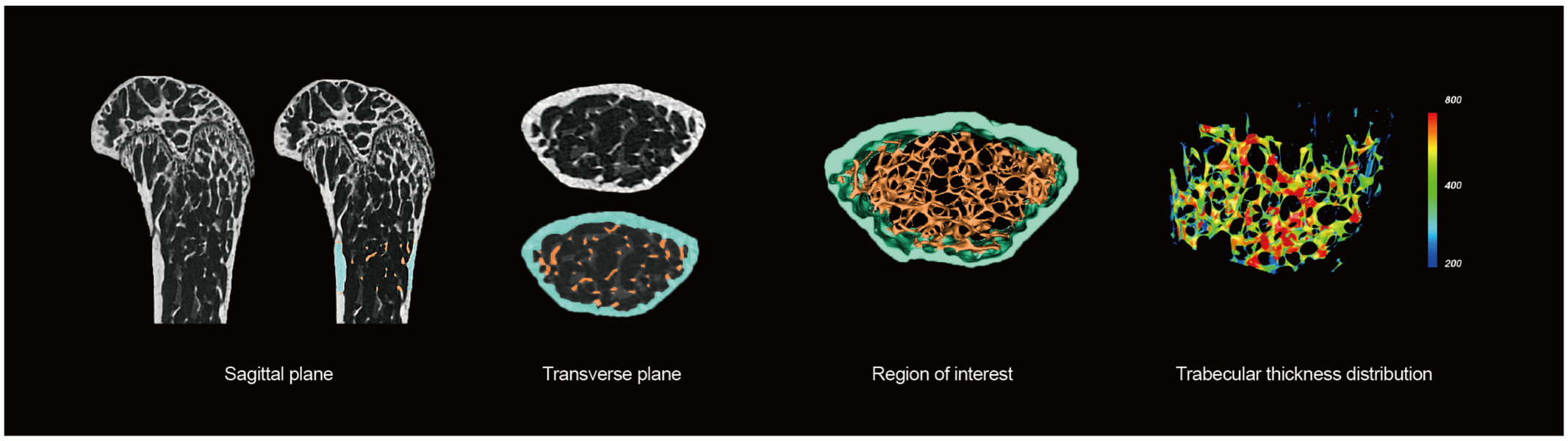


AI-POWERED ANALYSIS SUITE:

UNLOCK THE FULL POTENTIAL OF YOUR DATA.

Bone Analysis

Provide a complete solution with parameters tailored to different animal models and experimental needs.

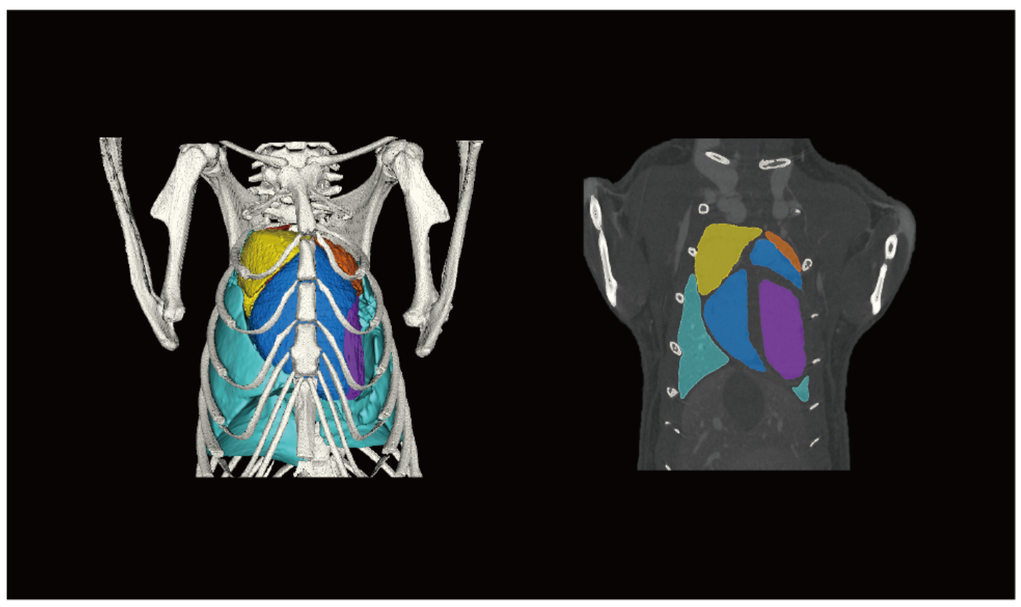


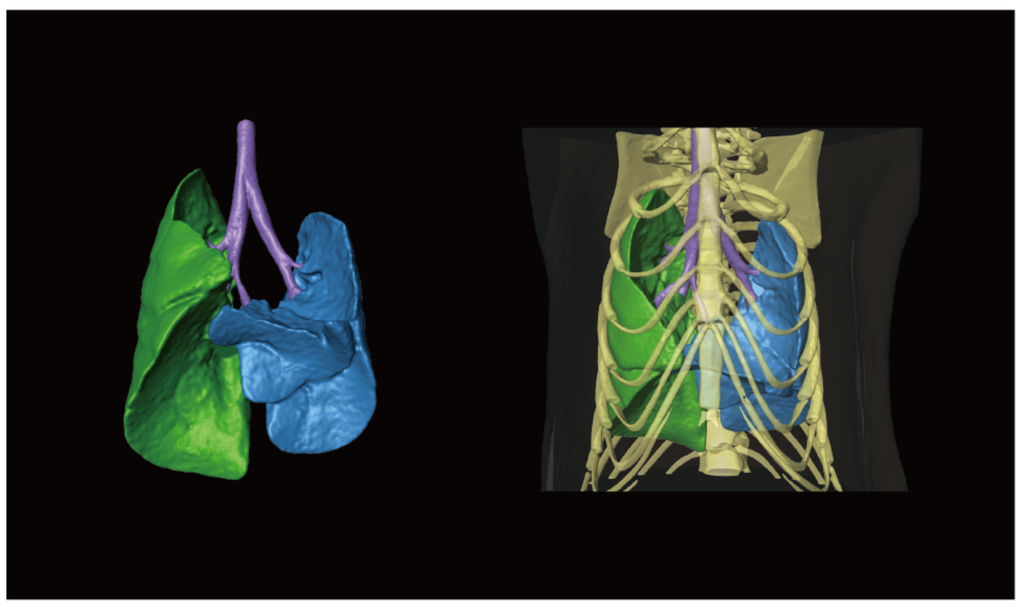
Cardiac Analysis

Capture key cardiac metrics (ESV, EDV, SV, EF, CO, HR) with advanced ventricular volume–time and dV/dt analysis for comprehensive cardiac performance evaluation.

Lung Analysis

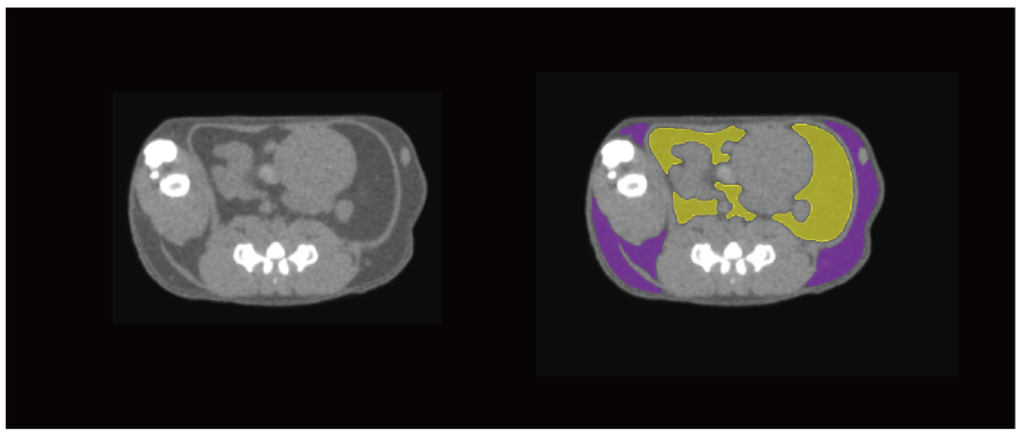
Respiratory-gated imaging of pulmonary diseases with quantitative analysis of lung/tracheal density, volume, capacity, and dynamic flow–volume curves.

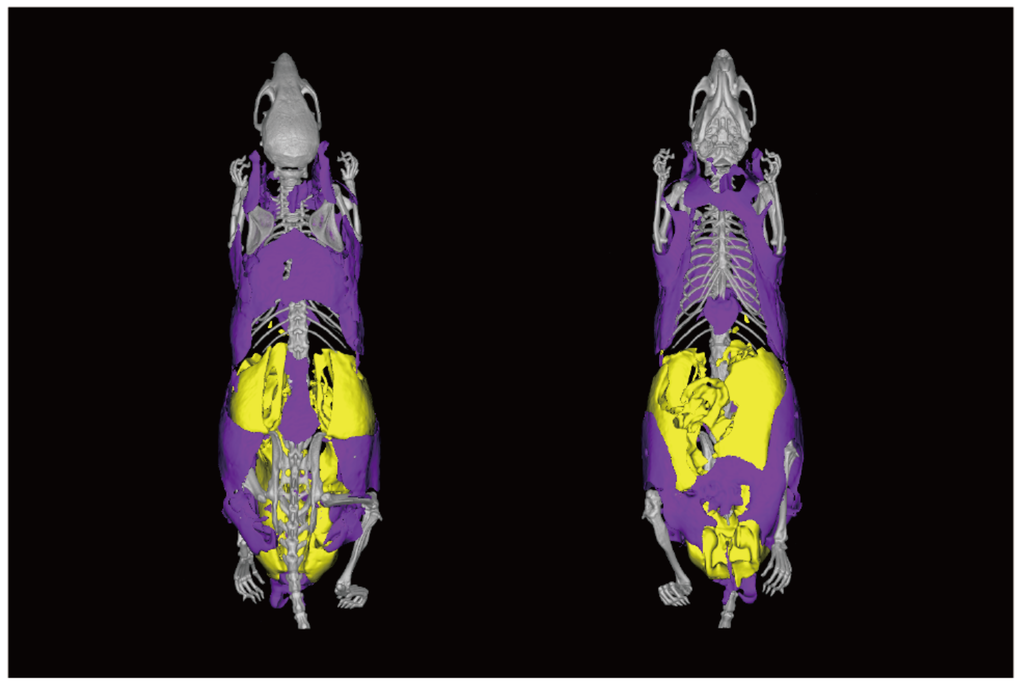




Adipose Tissue Analysis

Differentiation and quantification of visceral and subcutaneous adipose tissue across the whole body and specific regions, measured by area, volume, and mass.





IMAGING 100pro	
Safety compliance	Self-shielding design, with a surface dose-rate of ＜ 0.2 μSv/h
Max. tube voltage	100 kV
Max. tube current	200 μA
Focal spot size	＜5 μm
Max. field of view	≥200×320 mm
Max. sample size	≥200 mm
Spatial resolution	5 μm
Max reconstruction matrix	≥10000×10000
Standard reconstruction time	≤10 s
Standard radiation dose	≤5m Gy
Versatile samples	*Ex vivo* and *in vivo* samples
Bone analysis	Included
Lung analysis	Included
Adipose analysis	Included
Vascular analysis	Included
Cardiac analysis	Included
Respiratory gating	Included
Cardiac gating	Included
Upgradable modules	Optical molecular imaging module, image-guided radiation therapy module

PRODUCT SIZE

Unit : cm