

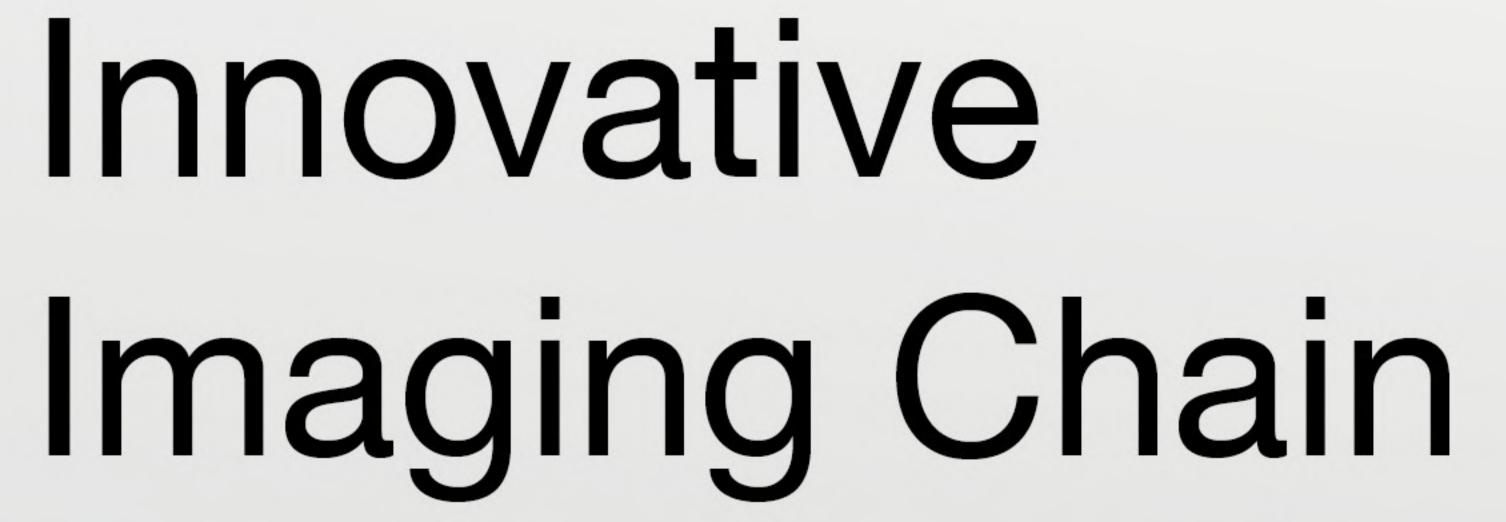


Shanghai United Imaging Healthcare Co., Ltd.

UC 550

Powerful. Proven.





Based on the high-performance imaging chain from UIH's 160-slice CT system, uCT 550 enables comprehensive and advanced clinical applications, assists precise clinical diagnosis and helps establish and expand your CT business efficiently.



## Z-Detector

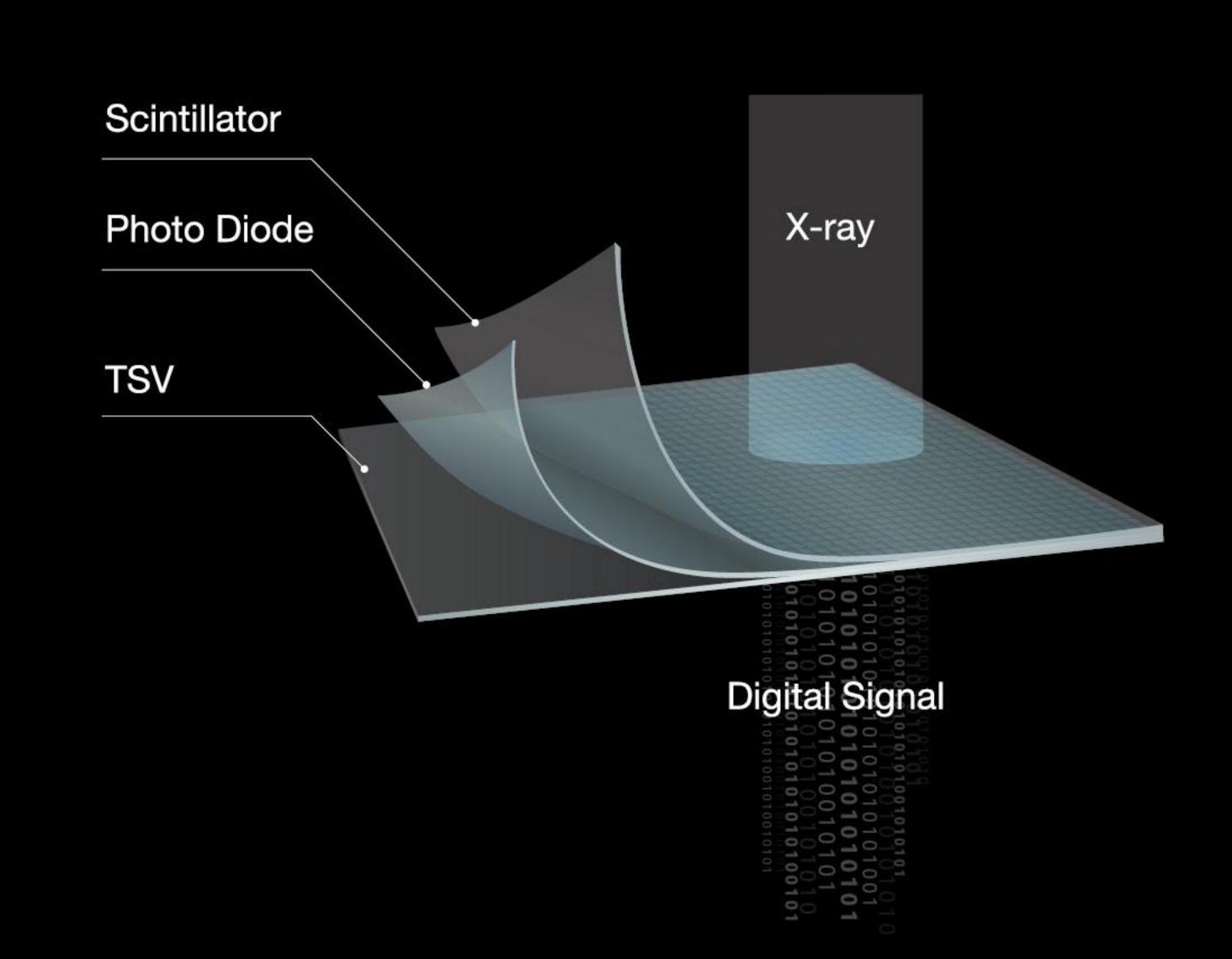
image quality.

		3 <sup>rd</sup> Generation	4 <sup>th</sup> Generation
1 <sup>st</sup> Generation	2 <sup>nd</sup> Generation		Digital Detector
		Solid-State GOS	
	Solid-State GOS	detector	Through-Silicon Via (TSV) Technology
Gas Detector	detector	DOD Structure	(100) Iddiniology
Split Design	Split Design		



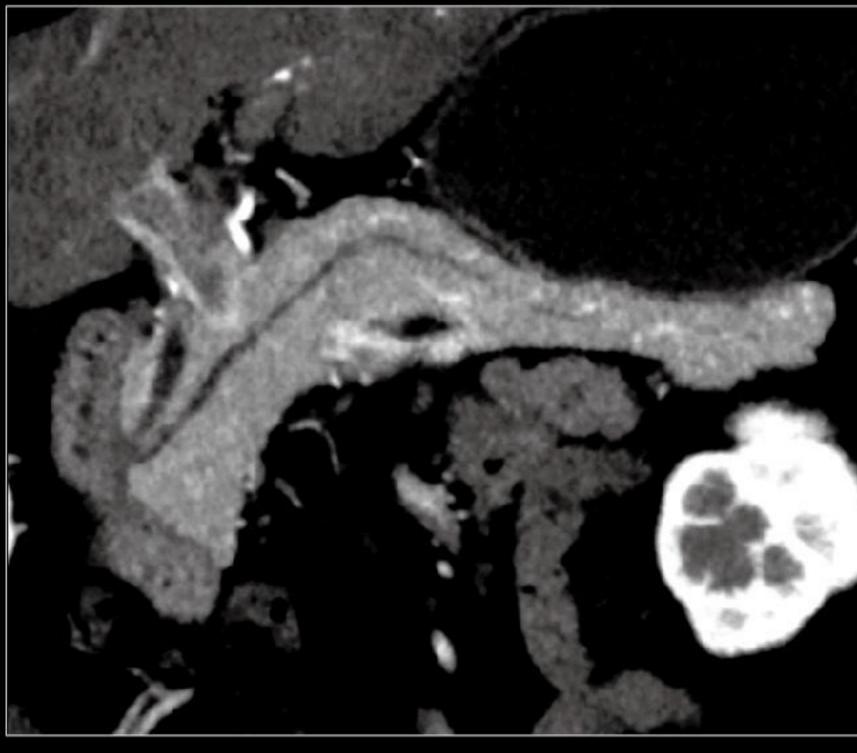
#### Ultra-low Noise Design

With Through-Silicon-Via (TSV), Z-Detector enables direct output of digital signal, which achieves not only overall noise reduction, but also helps to ensure optimal image quality with low radiation dose.





exquisite visualization of fine anatomic details.



Clear pancreatic duct and pancreas boundary.



#### Efficient Material

The high conversion efficiency of GOS boosts X-ray conversion rate while maintaining quick response time.

#### Improve Low Contrast Detectability

Z-Detector delivers reduced noise and improved grey/white matter differentiation.



Conventional detector CTDIvol=58mGy

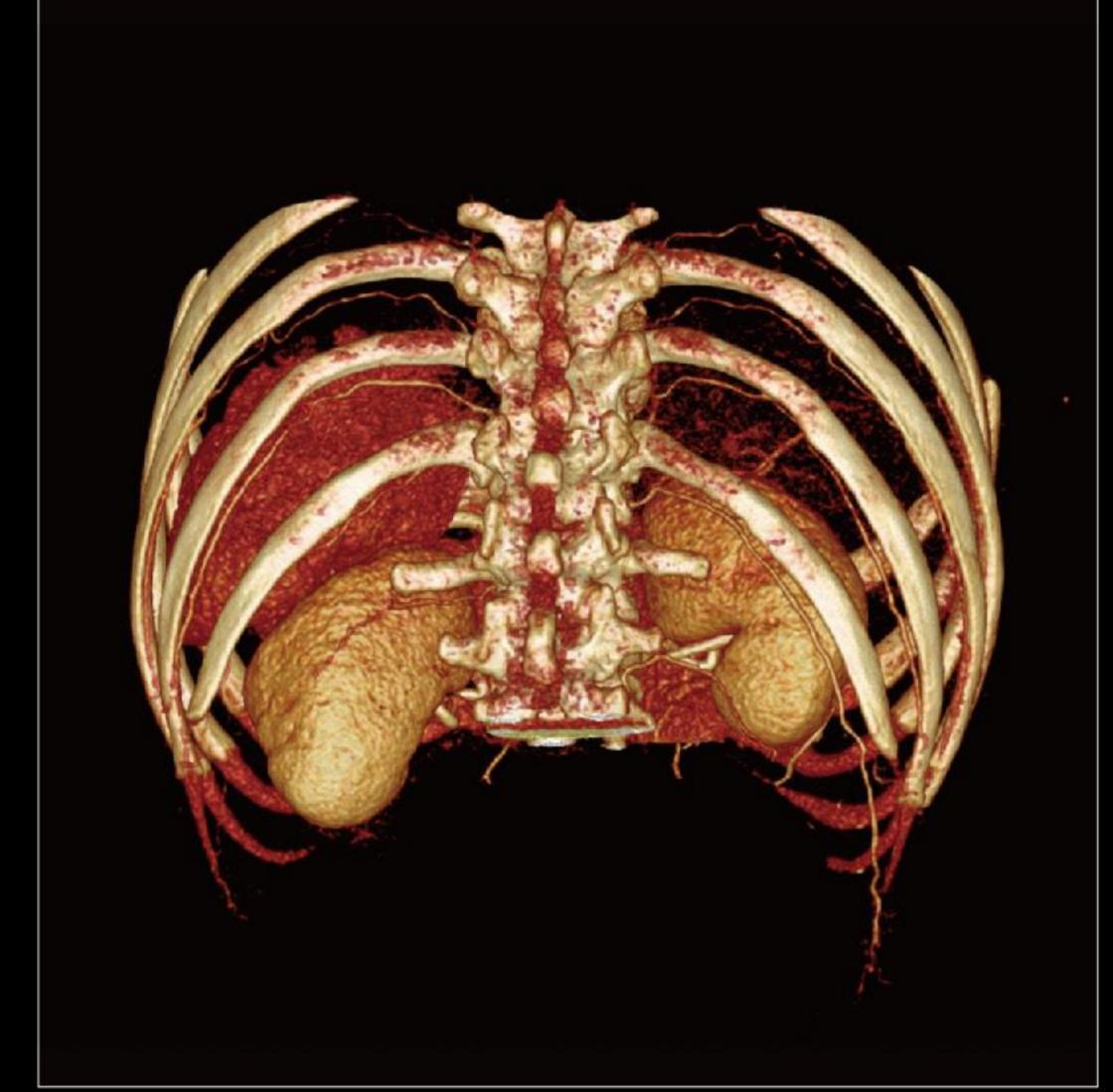


Z-Detector CTDIvol=40mGy

#### Improved Small Vessel Visualization

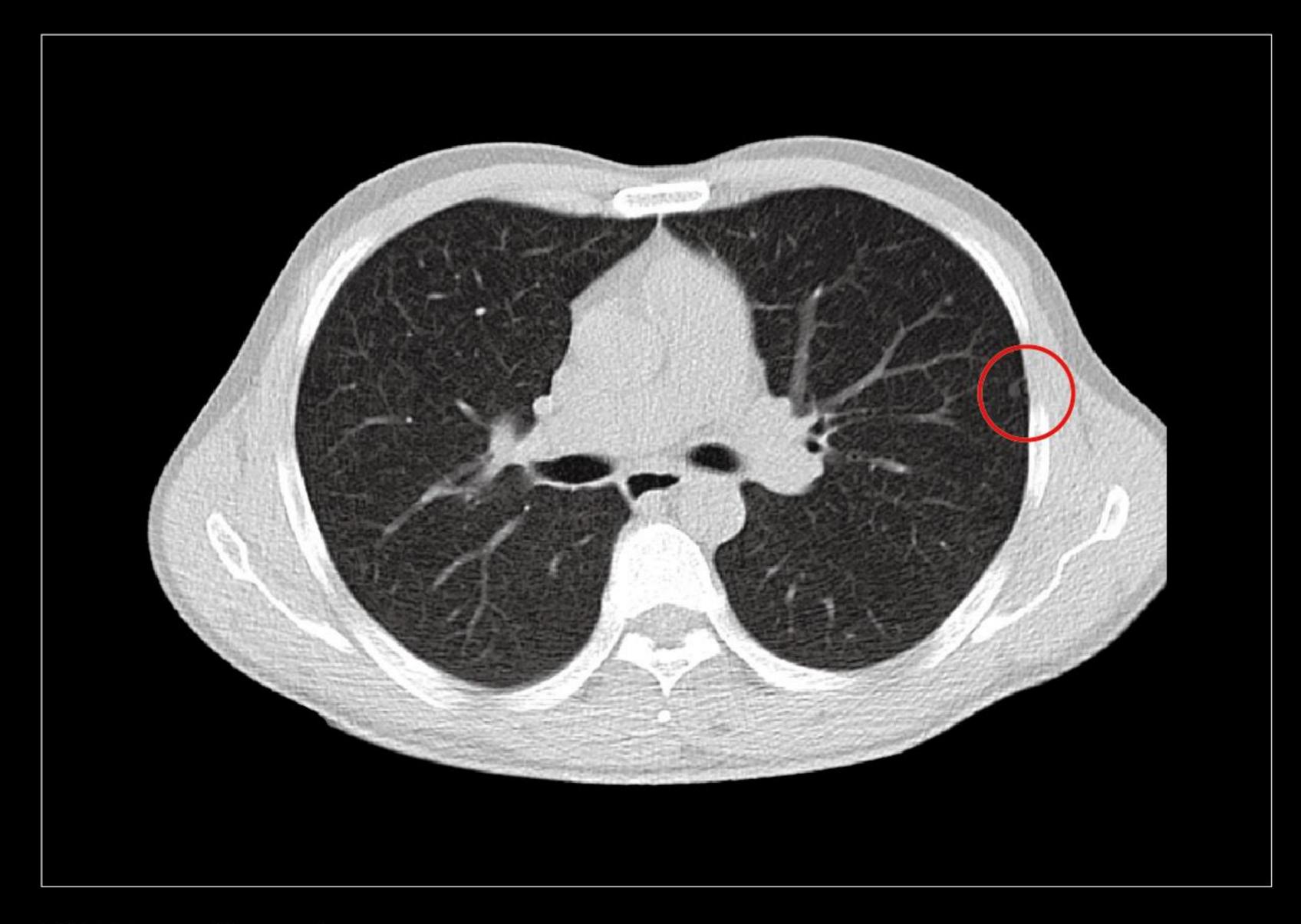
Wider z-direction coverage and thinner acquired images boosts small vessel visualization.



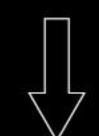


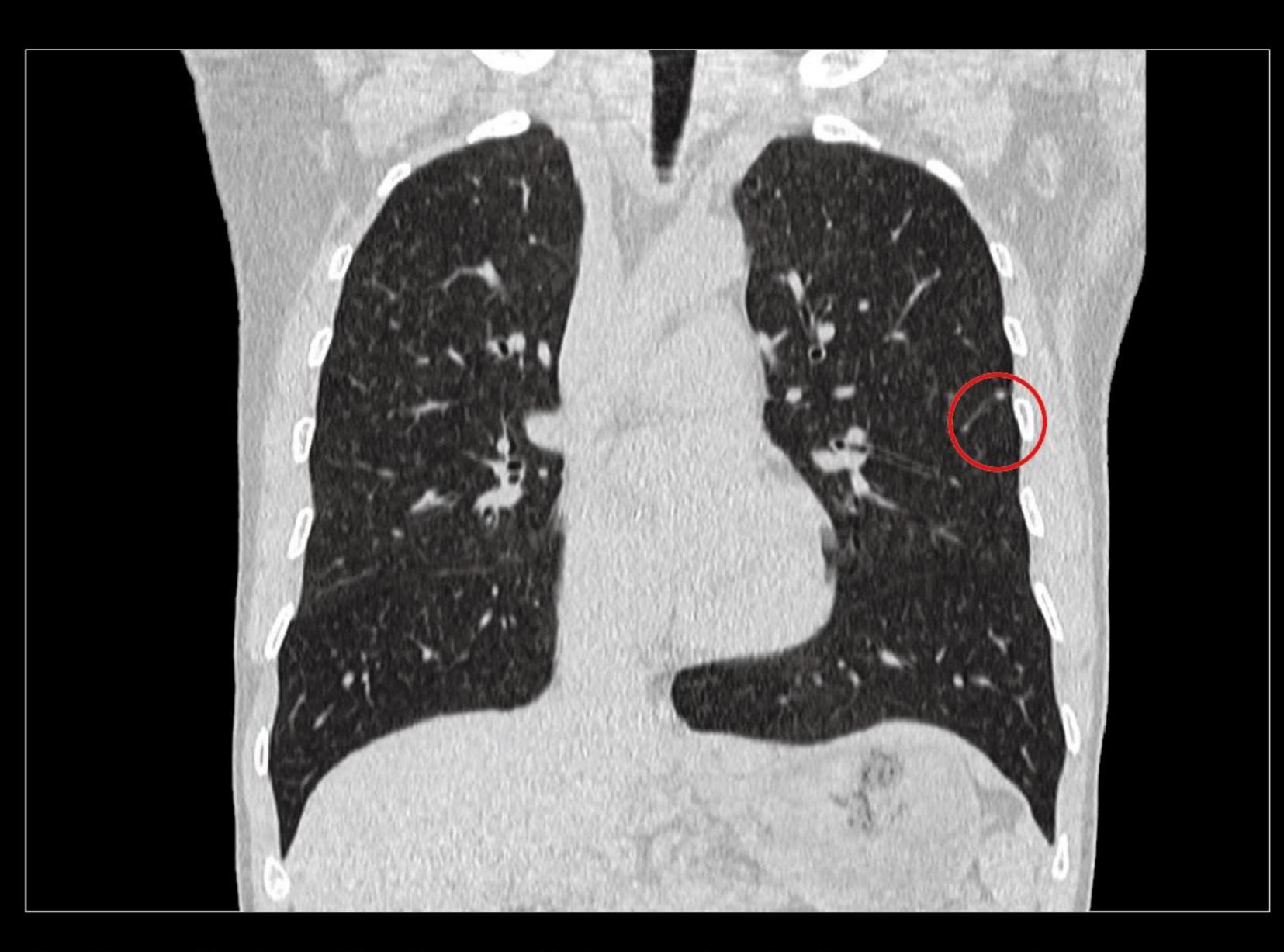
#### Specialized Scan Mode for Low Dose Screening

With the Z-Detector, the image noise for 70 and 80 kVp scans can be minimized.



70kV Lung Screening
0.82mGy (over 3 times lower than the 3 mGy CMS threshold)
A nodule found in 5mm image, GGO?

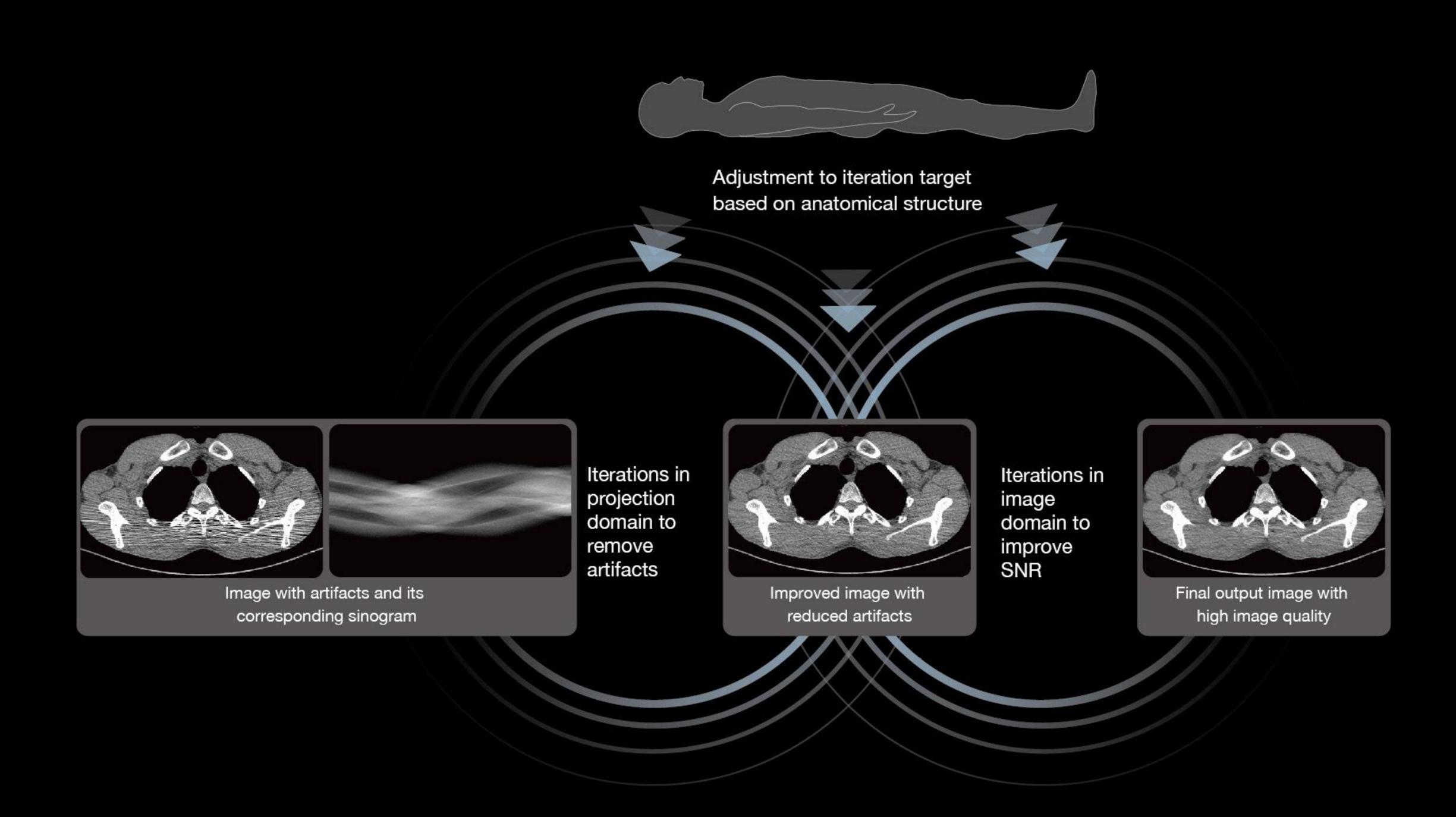




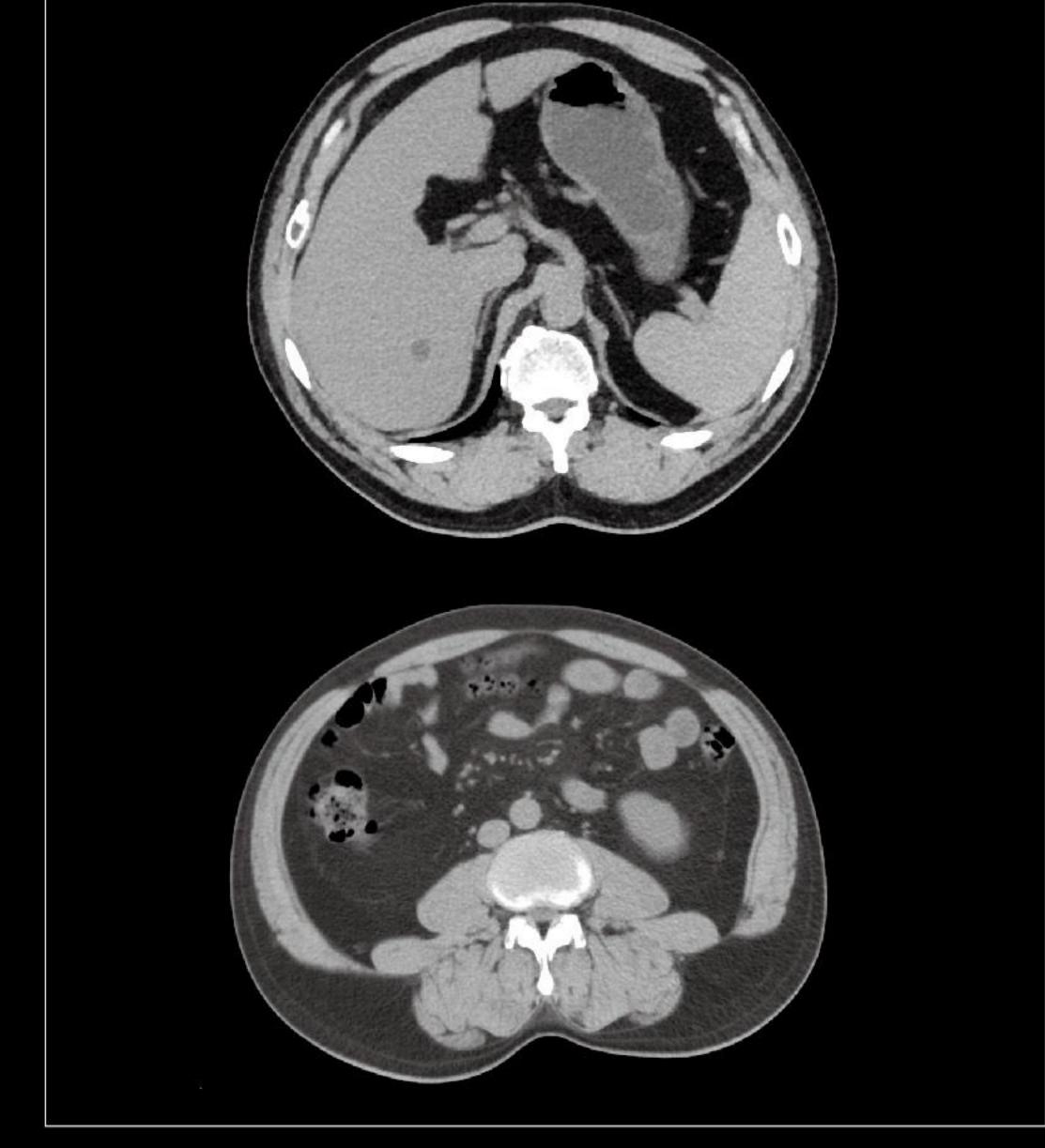
A solid nodule is verified through 0.55mm thin slice image reconstruction.

#### KARL 3D Iterative Denoising\*

KARL 3D employs iterative algorithm in both projection space and image space. It helps deliver image with outstanding quality while significantly reducing image noise.



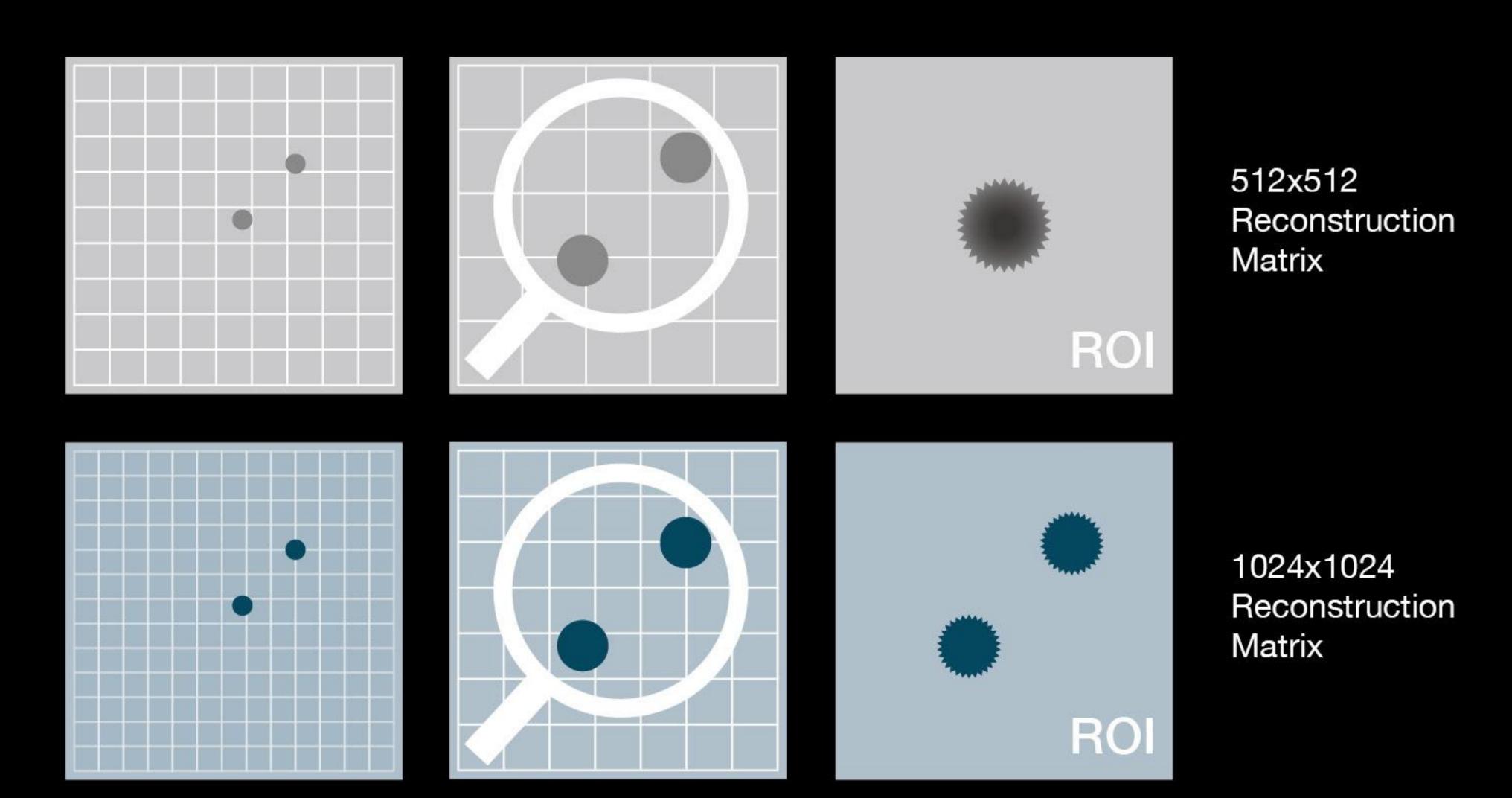




Abdominal exam for patient with BMI 31.4.

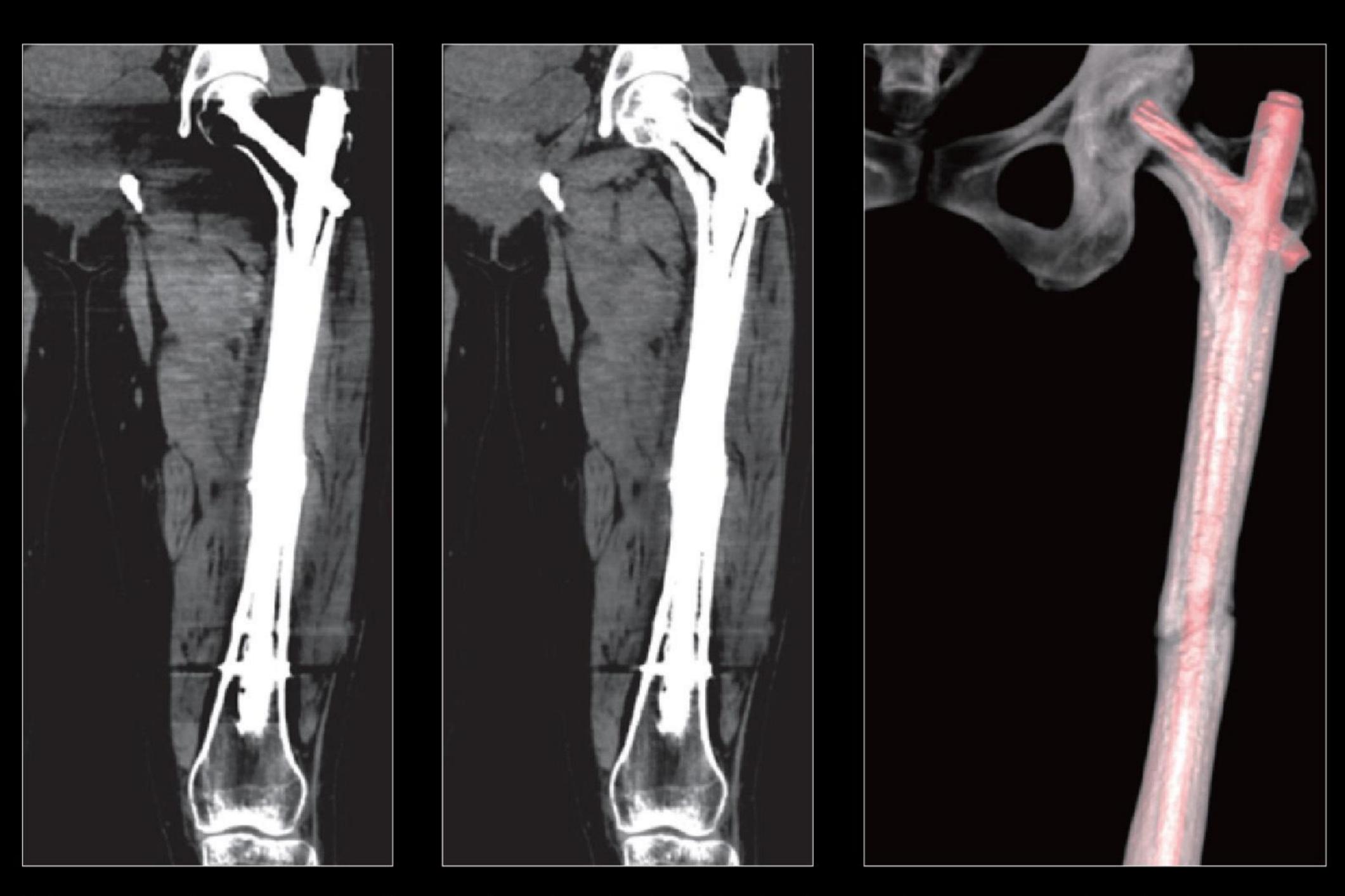
#### 1024x1024 HD Reconstruction Matrix\*

The high-definition reconstruction matrix reveals the fine details of inner ear, small joints and lung structures, etc.



#### MAC Metal Artifact Correction\*

MAC can be used prior to or after the scan. It aims to remove metal artifacts and keep the important surrounding structural details.



Effectively reduces metal artifacts induced by the hip joint implant and allows clear visualization of surrounding soft tissue and bone structure.

\* Optional

# Enhanced Clinical Performance

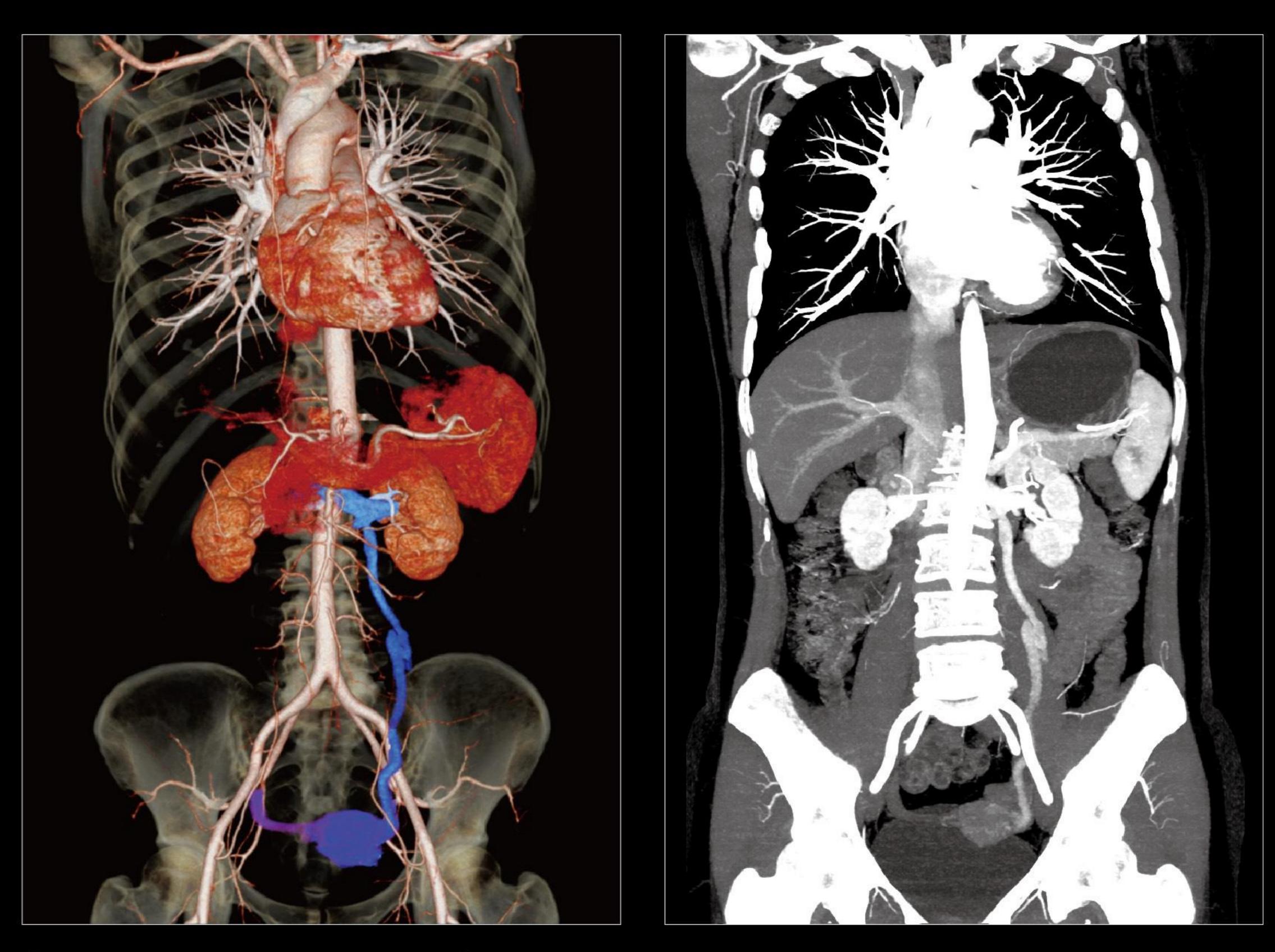
Combing the powerful hardware platform and the Easy-logic prediction platform, uCT 550 provides streamlined workflow and extends the capability of routine clinical practices with high patient throughput.



#### Powerful Hardware Platform

The uCT 550 incorporates a 5.3MHU X-ray tube with a fast cooling rate of 815kHU/min, which helps to ensure a fluid clinical workflow even for institutions with a large patient volume.

The combination of detector, rotation speed and table speed results in rapid scanning capabilities, with exceptional image quality.



Continuous pulmonary and abdominal CTA scans with high spatial resolution and superb image details.

#### Easy-logic Prediction Platform

#### EasyRegister

The most frequently used protocols are sorted, updated and placed in the front page shortcut area, for easy selection.

Along with the pre-set patient positions, the patient registration can be completed with a few clicks of the mouse.

#### EasyLogic

The system predicts the next user operation and is fully prepared prior to the command conducted, including tube preparation, gantry preparation and data pre-processing.

Minimizes the wait time between operation procedures and accelerates CT exam workflow significantly.





# Integrated Advanced Applications on the Console

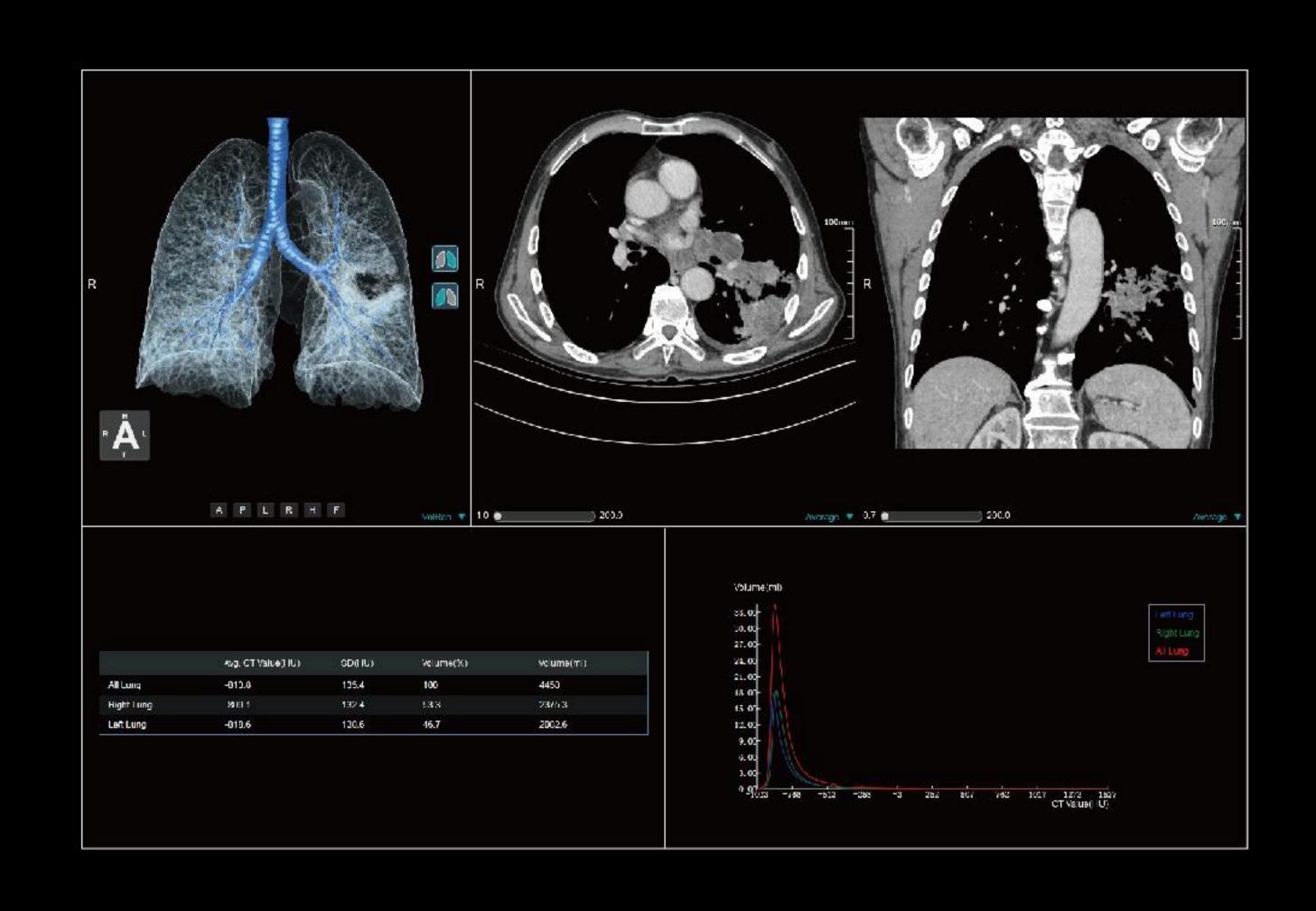
#### Lung Nodule

- Assist detection, segmentation, and measurement of nodule
- Nodule quantitative analysis
- Follow-up analysis
- One-step structured report



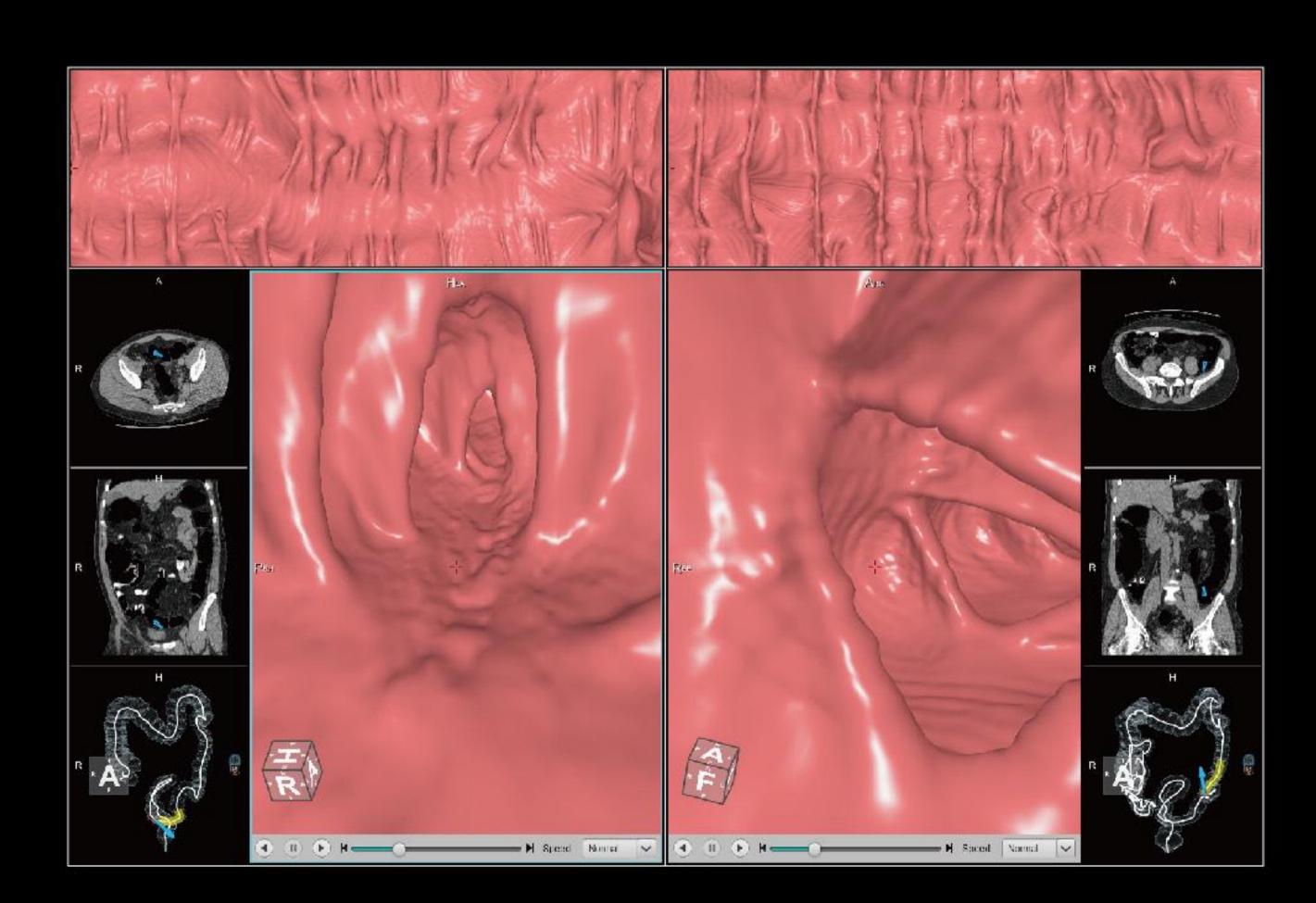
#### Lung Density Analysis

- Pulmonary Lobe Extraction
- Pulmonary Density & Volume Measurement
- Bronchial Wall Surface/Diameter Measurement
- Quantitative Data Analysis and Export



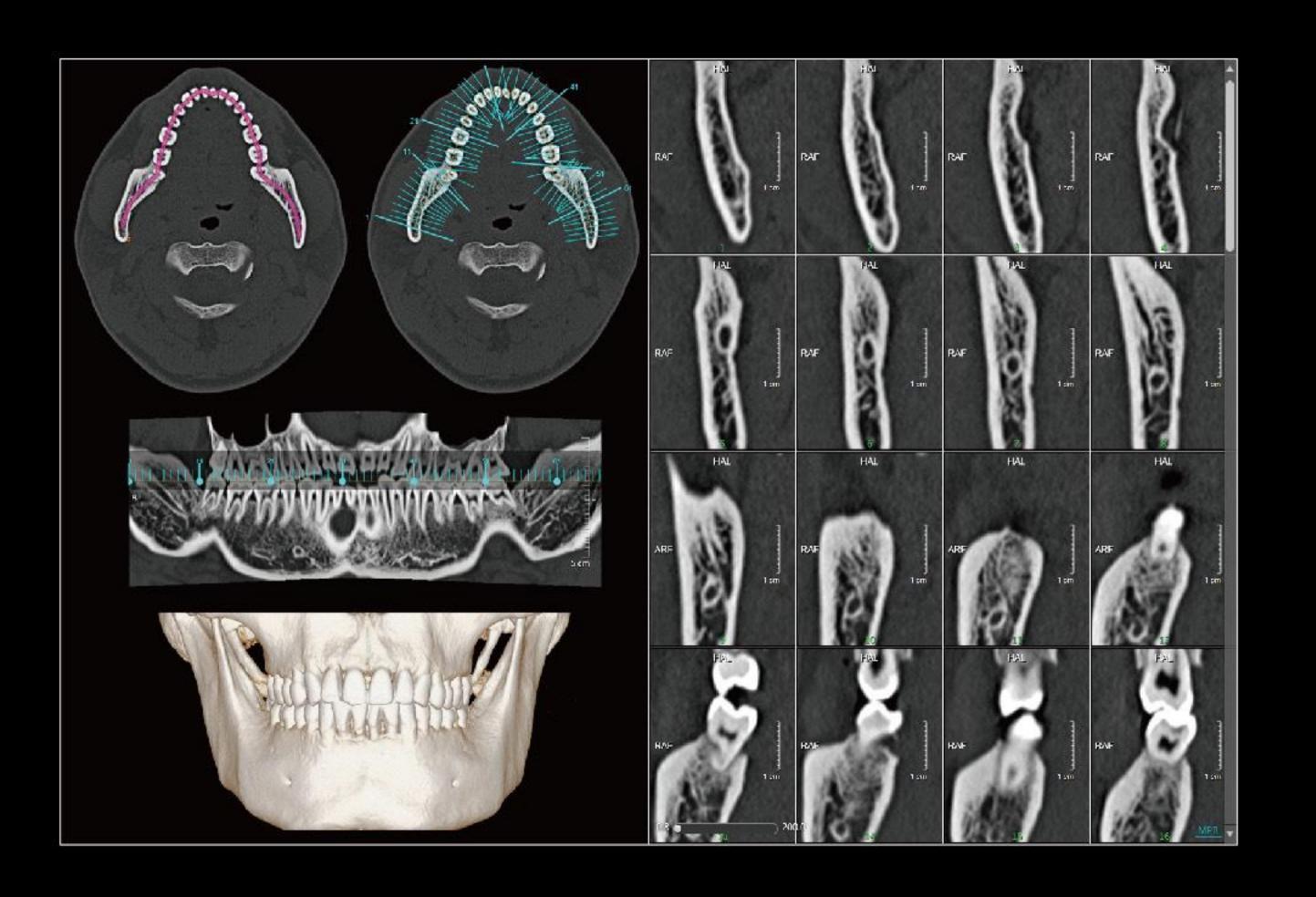
#### Colonoscopy

- Automatic colon segmentation
- Electronic colon cleansing
- Virtual endoscopy

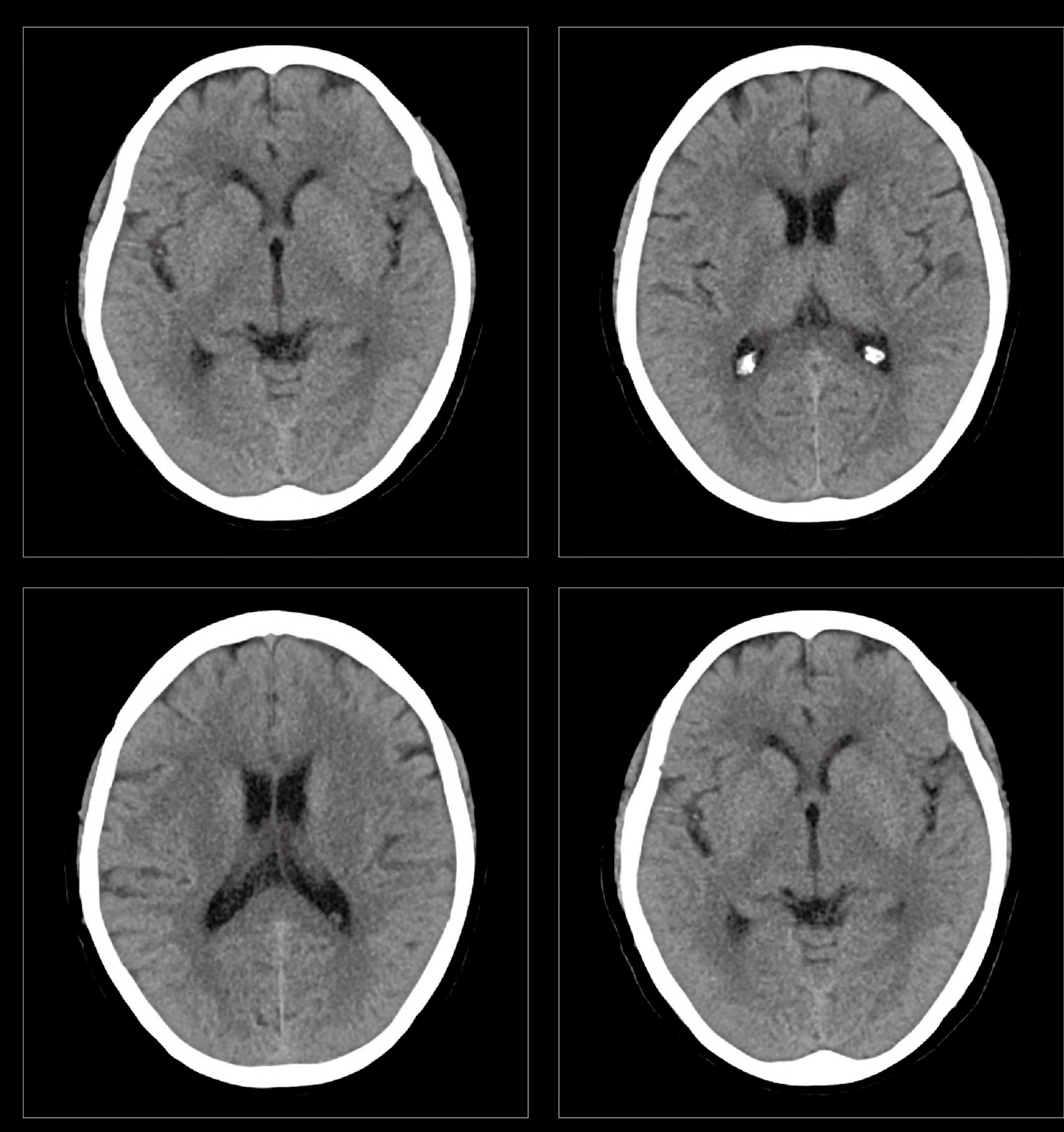


#### Dental

- Plotting Panoramic Curve
- Marking Nerve Lines
- Sectional View Analysis



### Clinical Images



The Z-Detector reduces image noise and enhances the grey/white matter differentiation.





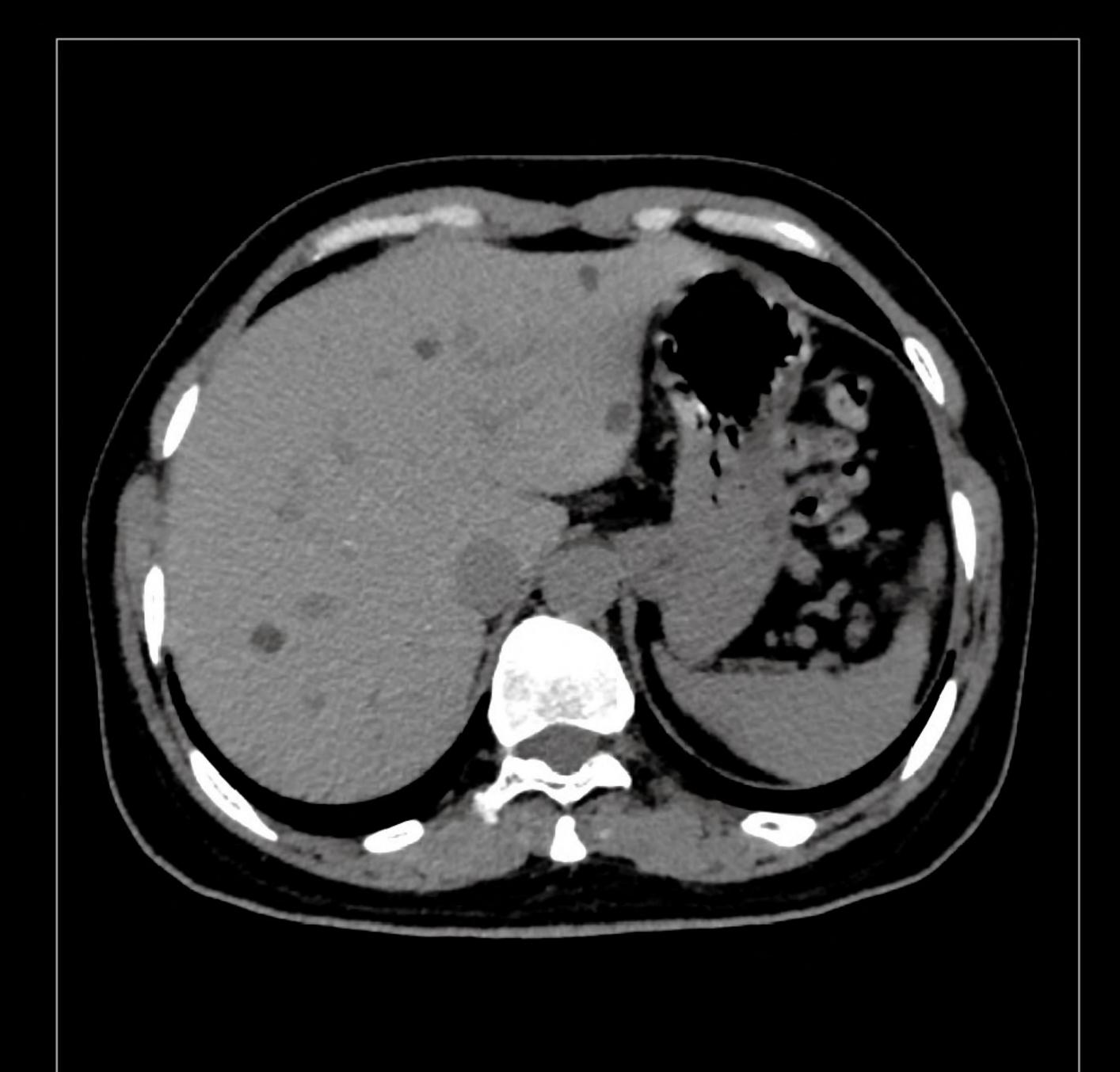


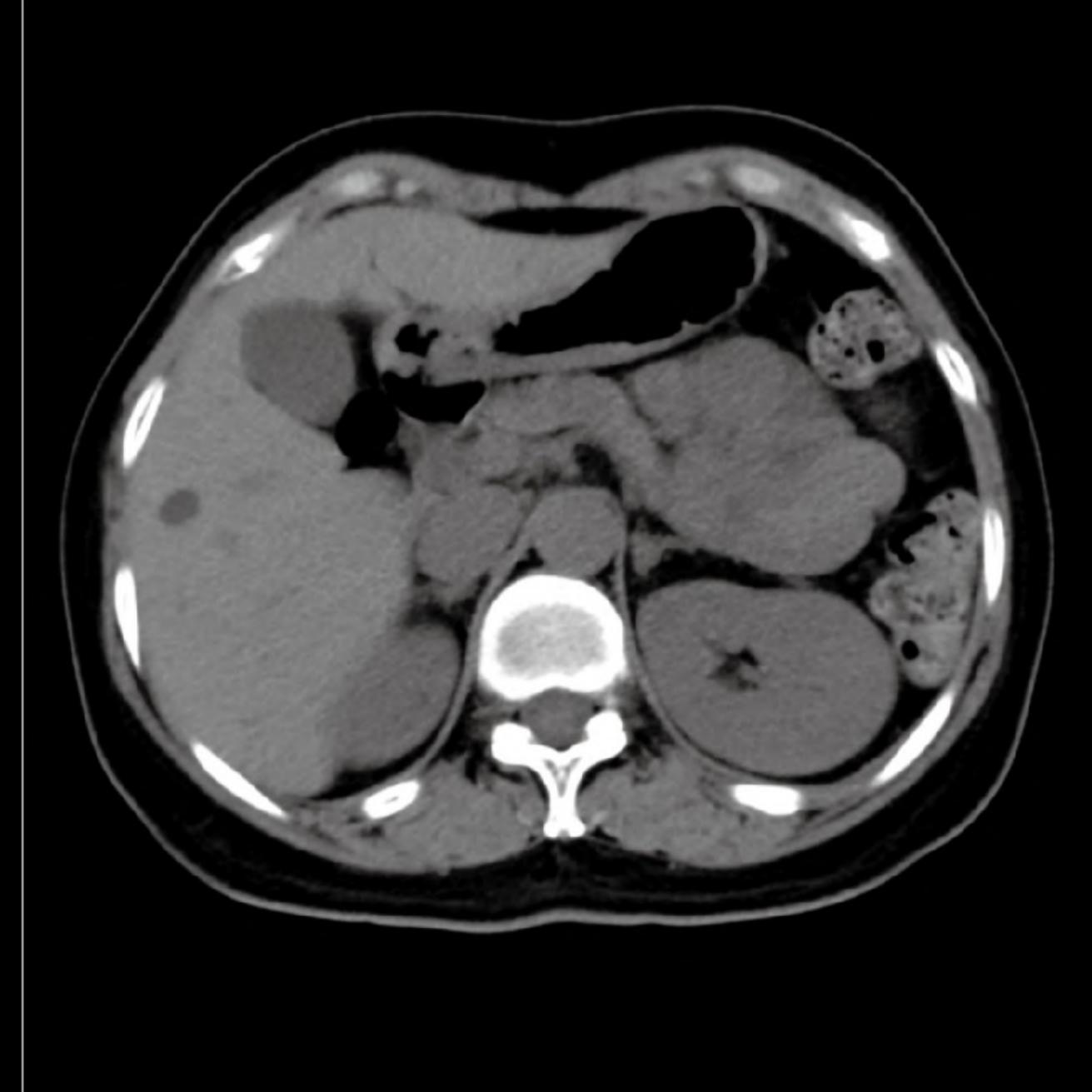


Finer image details with 0.55 mm slice thickness.

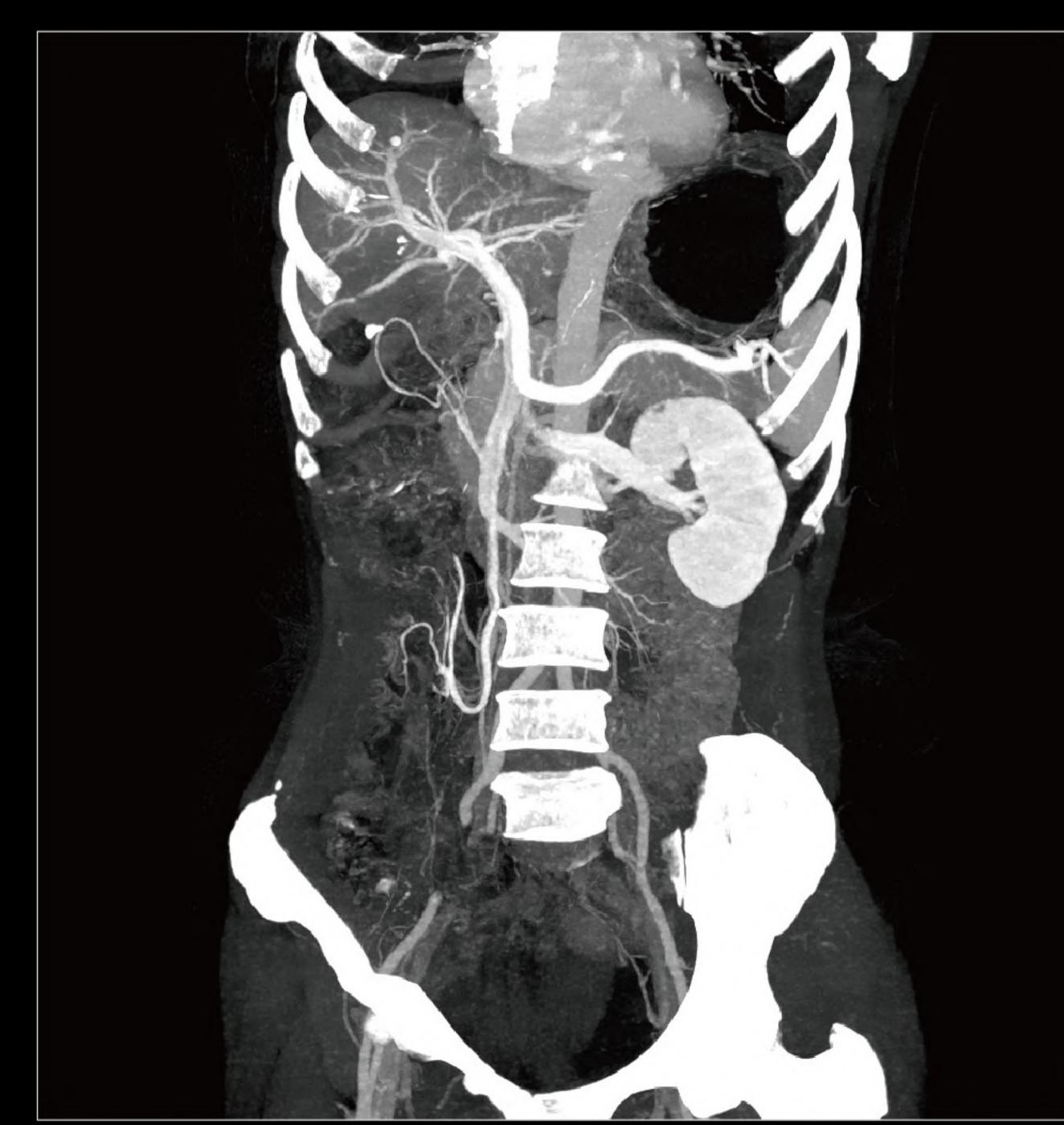






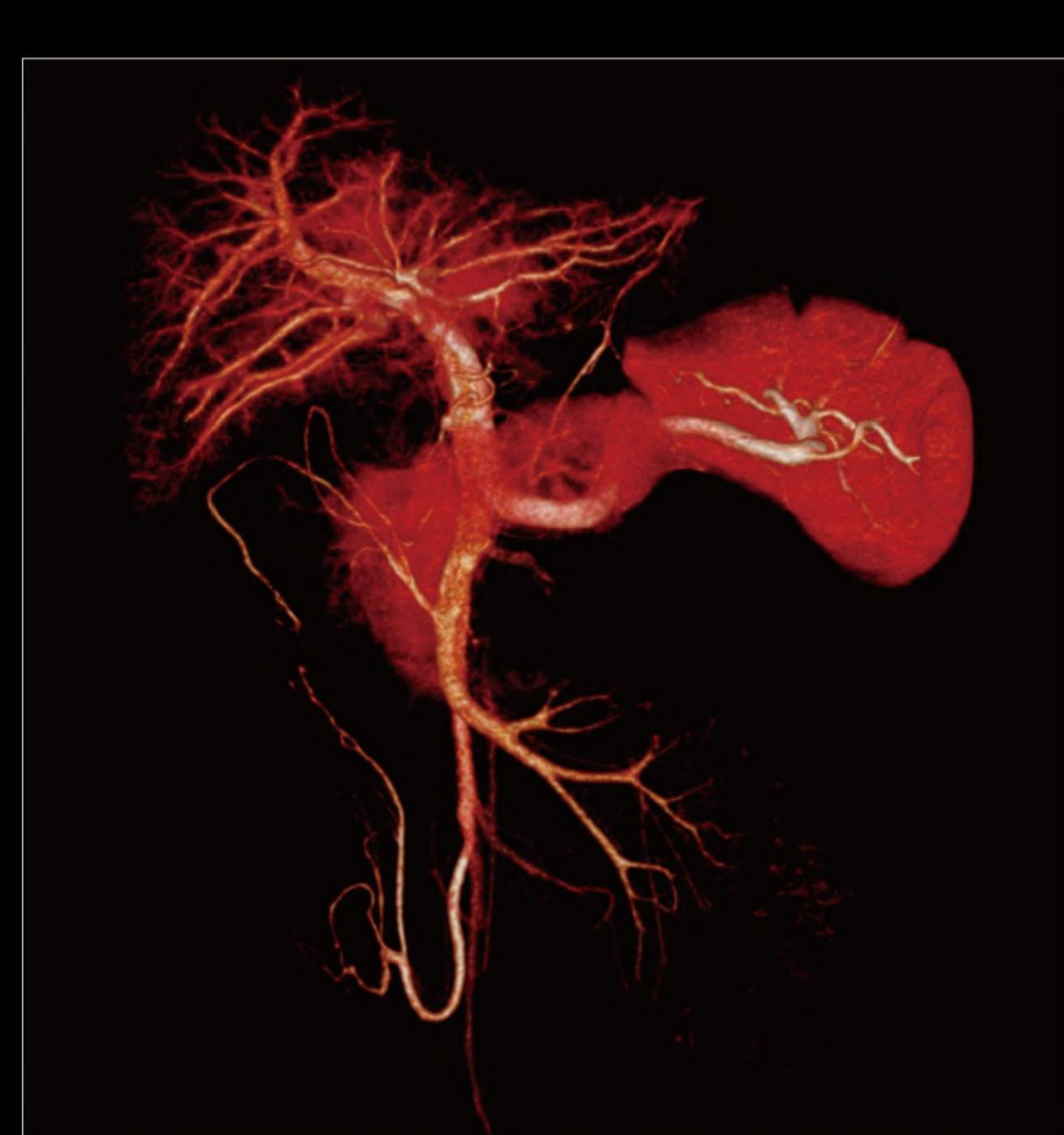


Ultra-low noise design boosts the visualization of bile duct and liver.

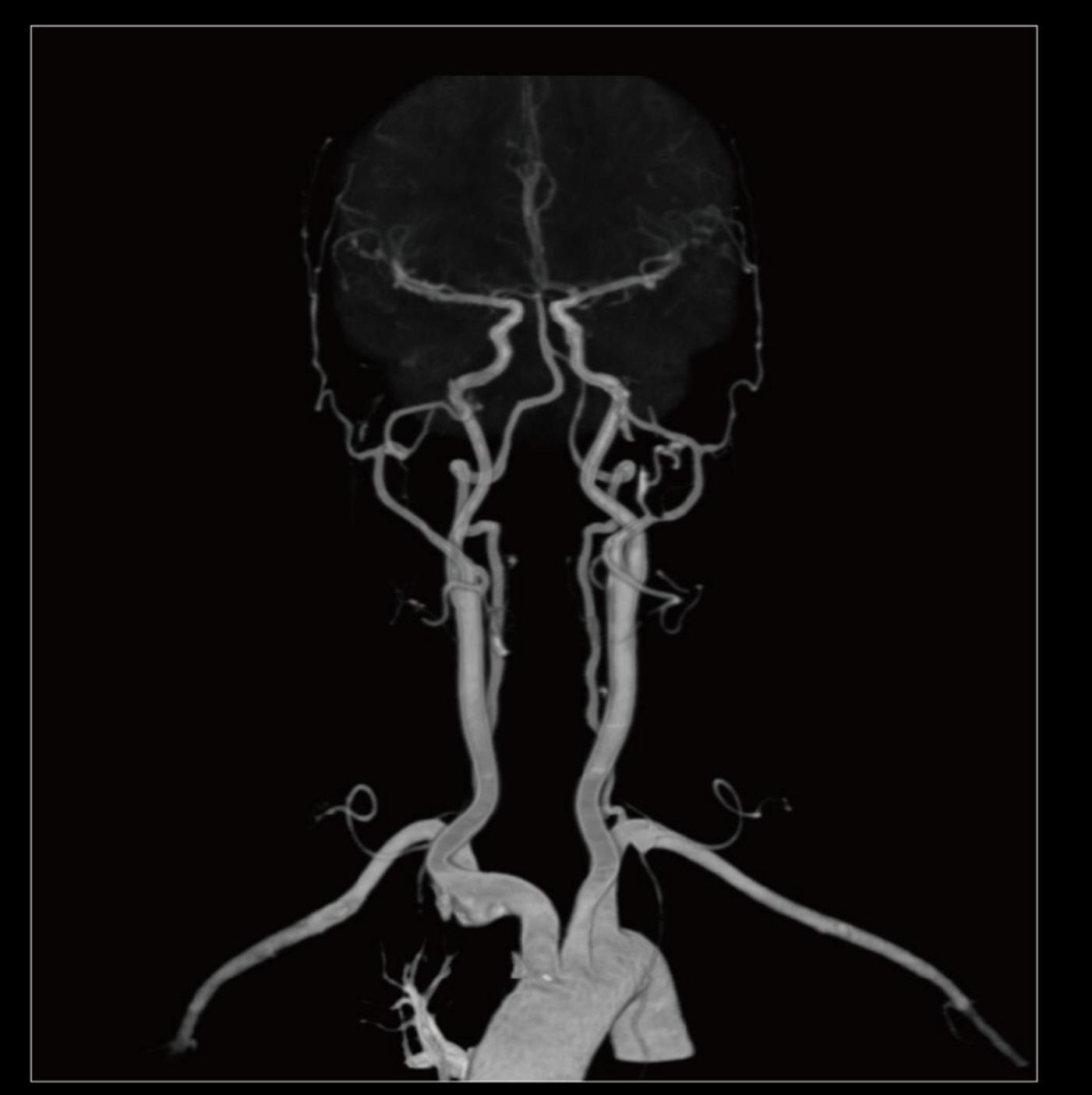








70 kV scan mode improves the image contrast of hepatic portal system.

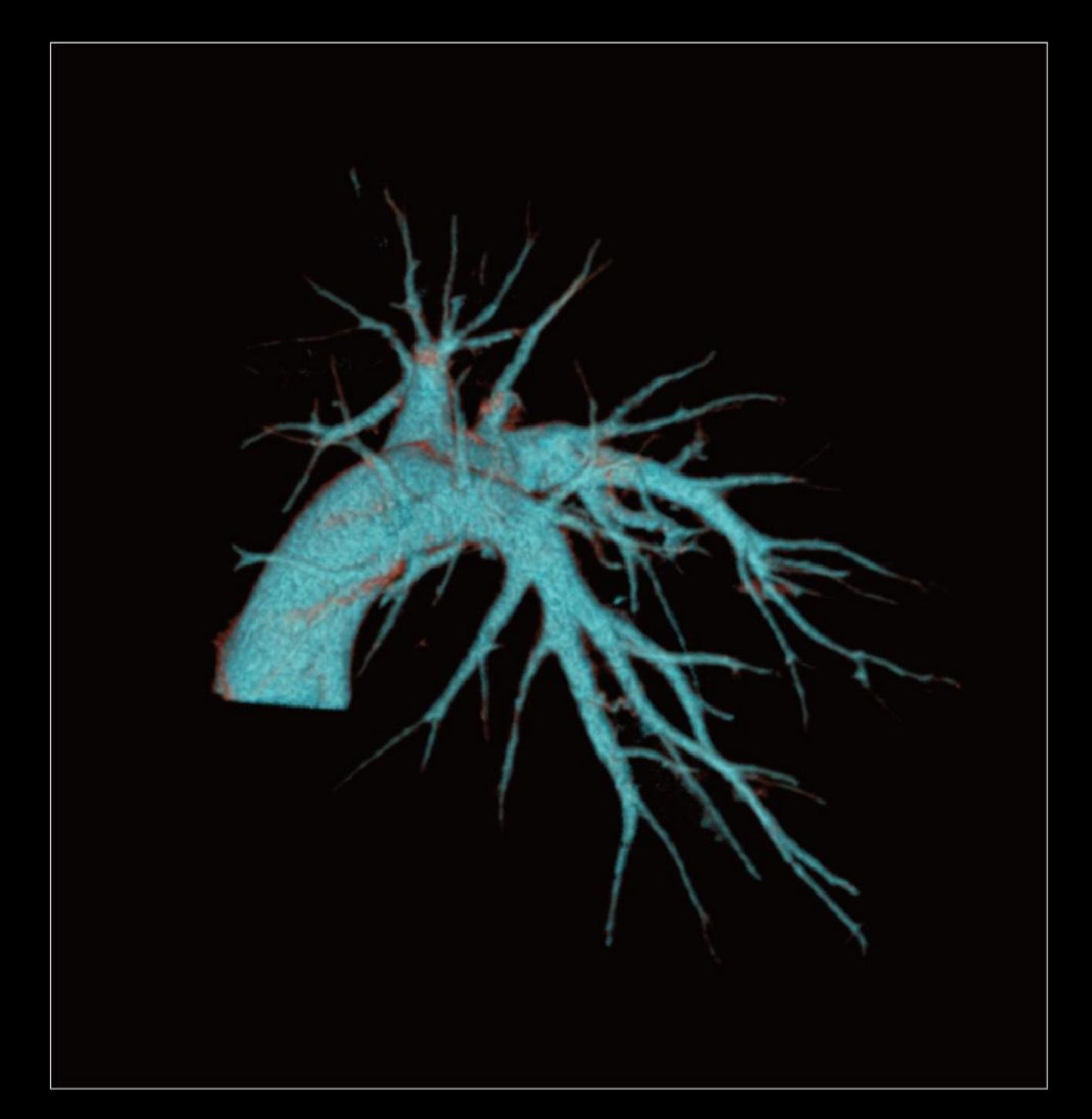


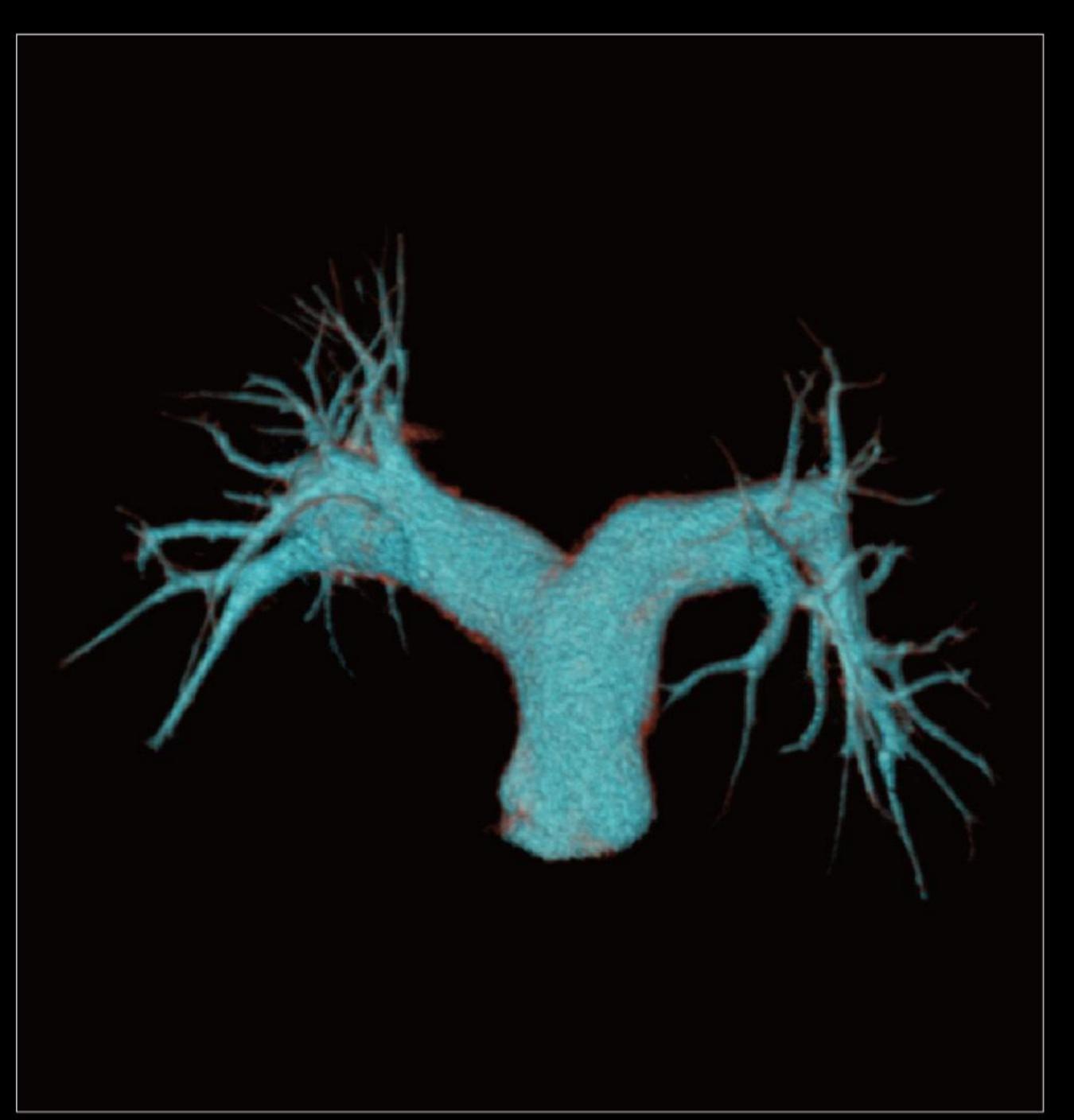






Single-click head & neck bone removal for clear vessel visualization and easy post-processing operation.

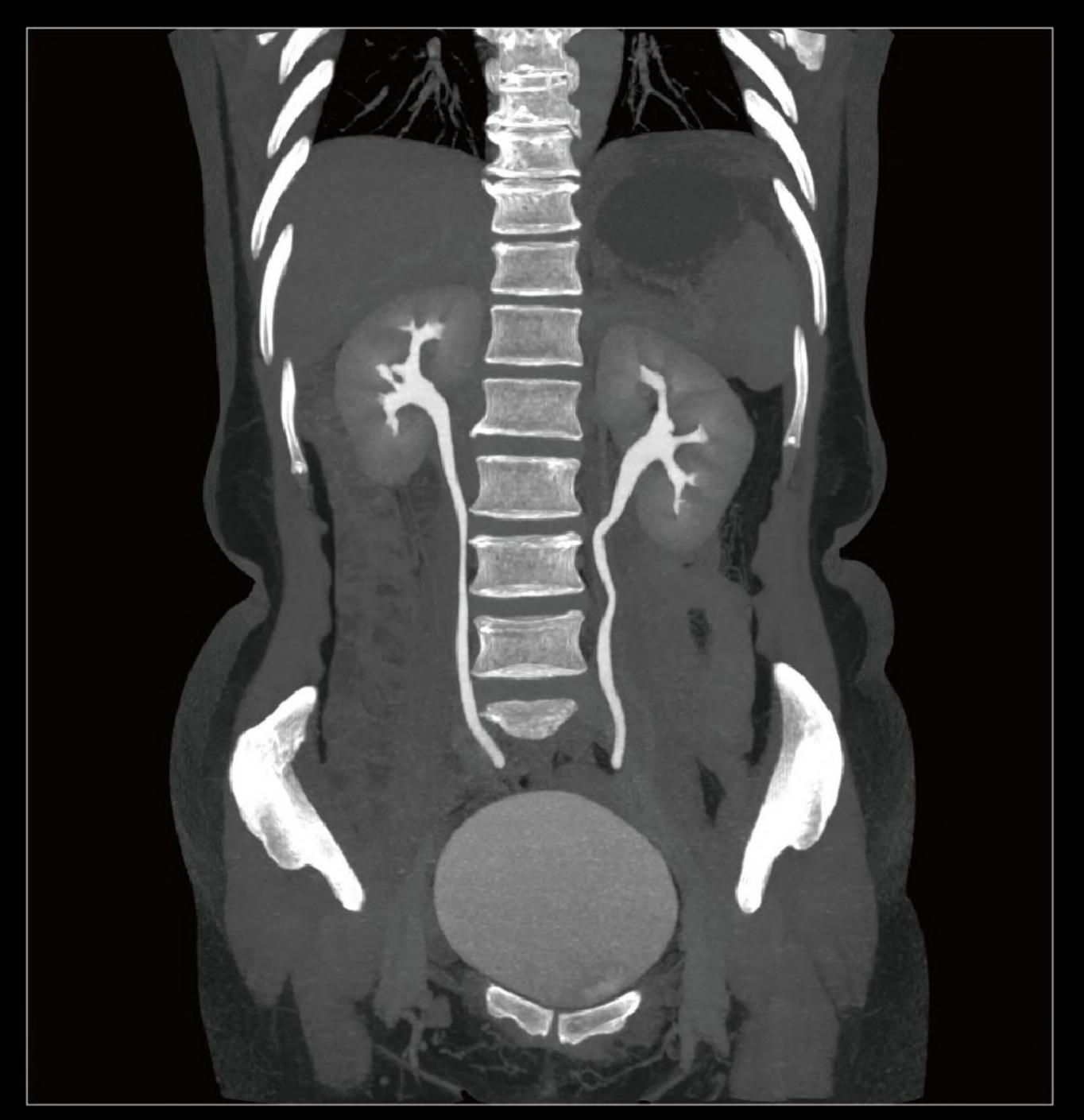


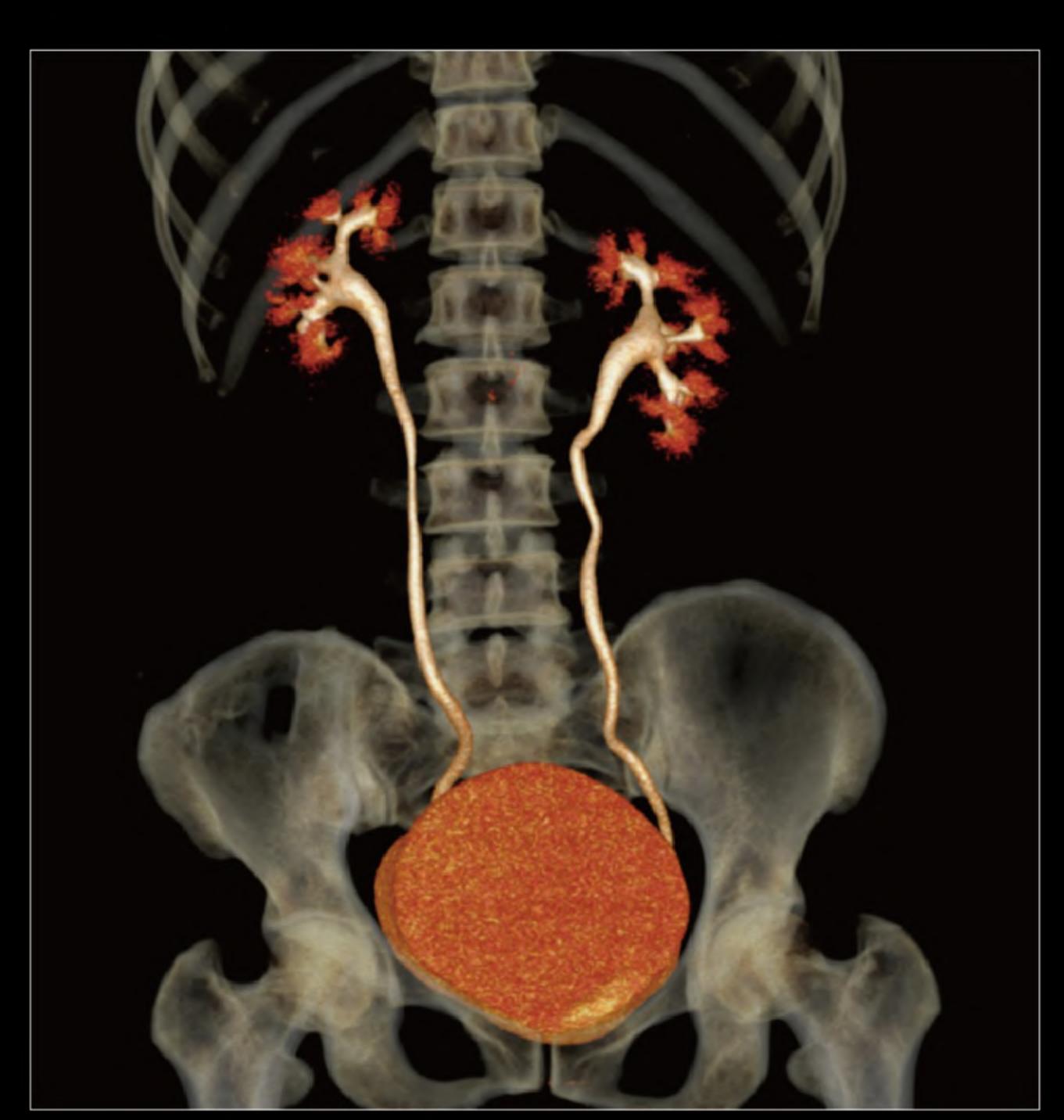






Wider detector z-direction coverage helps to conduct pulmonary CTA faster with less respiratory artifacts.

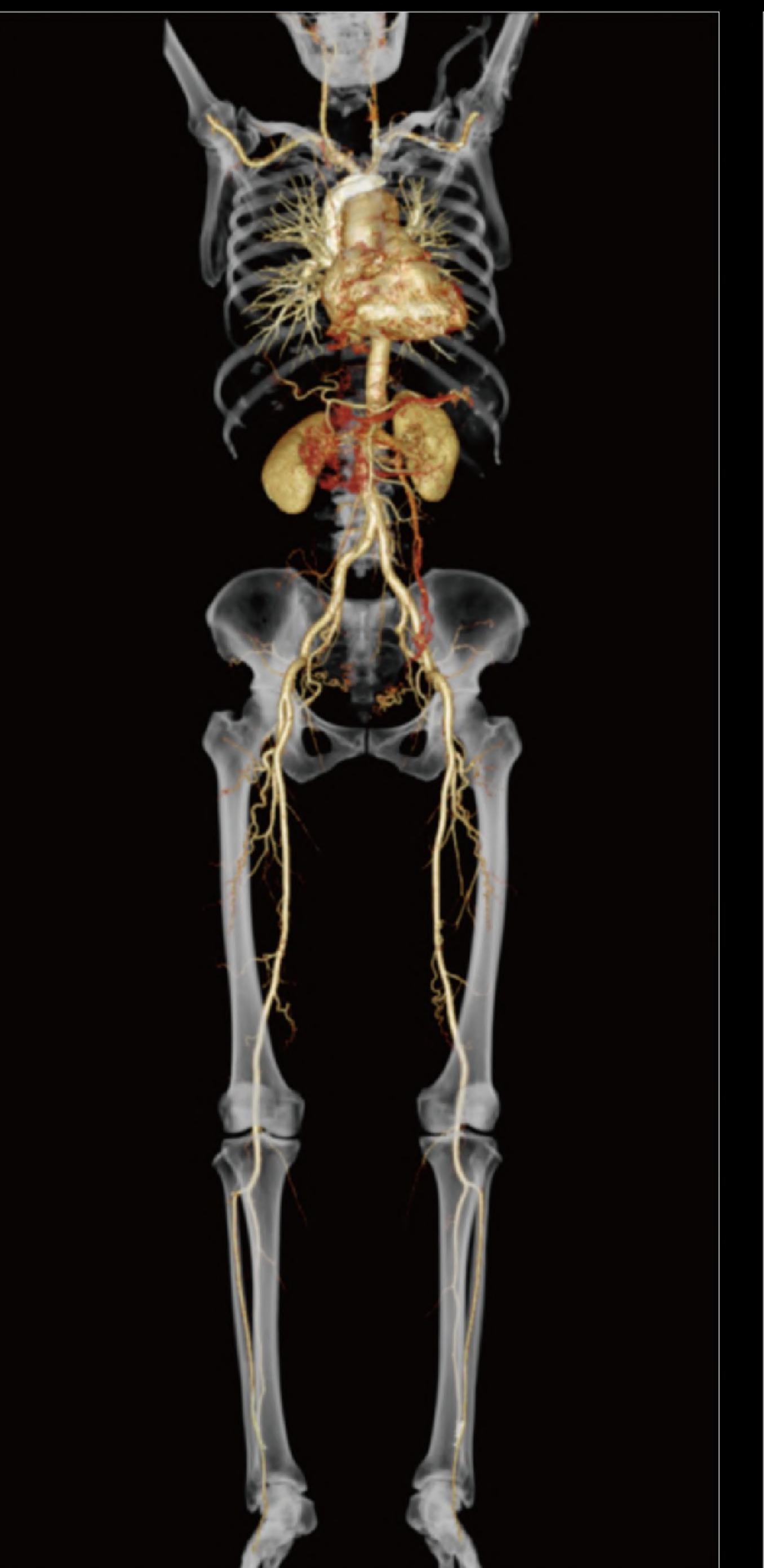








CTU is used to obtain clear images of the whole urinary tract, including the kidneys, bladder and ureters.

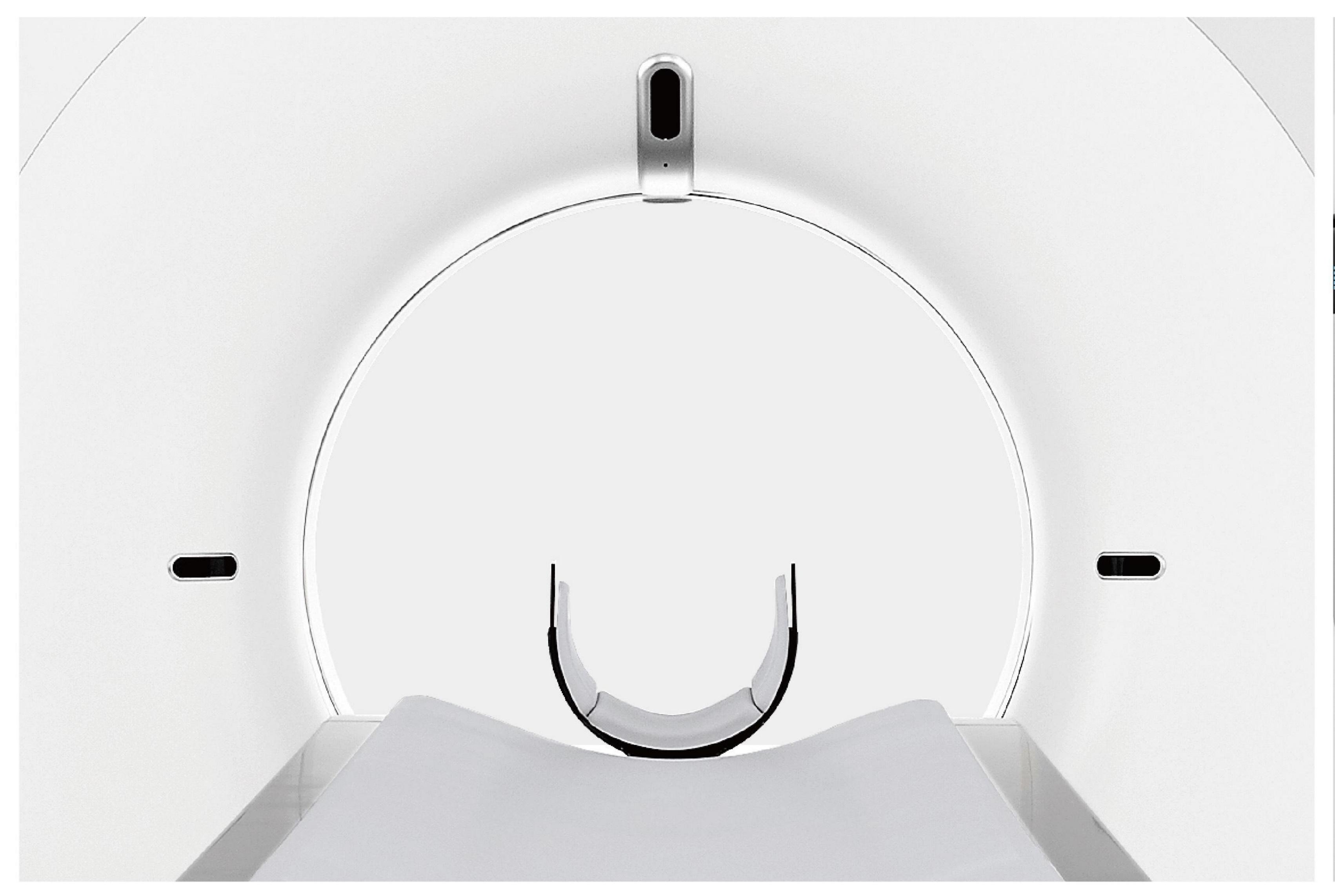




The powerful hardware platform helps to ensure rapid CTA scan capabilities with exceptional image quality.

## "User in Mind" Design

Focusing on user experience, uCT 530 combines precise operation with a lightweight and artistic design. We bring aesthetic enjoyment and ease of use to the technology, delivering care, trust and respect through our design.





#### **Aesthetic Pleasure**

Our design scheme integrates eastern aesthetics with minimalism, presenting a seamless fusion of traditional and modern styling.

#### User-friendly Design

Our product design ultimately aims to deliver comfort, safety, efficiency, and ease-of-use. By applying ergonomic principles, we combine innovative design with perfect functionality in order to provide the best possible user experience, optimizing patient comfort during every examination.

#### Sophisticated Craftsmanship

Driven by the tenets of lightweight and precision design, we fine-tune every technological detail to embody the spirit of craftsmanship in every product.

#### **ABOUT UIH**

Shanghai United Imaging Healthcare Co., Ltd. is a provider of high-end medical equipment and medical IT solutions. From our headquarters in Shanghai's Jiading district to our network of research and development centers throughout the world, our global mission is to provide medical institutions with a full-range of healthcare solutions, from diagnostic imaging and radiation therapy equipment to service, training, and medical IT. We are dedicated to expanding access to high-quality medical care and improving the value of our services.

With a passion for change and independent innovation, we always aim to meet your needs. Perceive More. Provide More. Access More. We Have A Passion for Change.



©2018 Shanghai United Imaging Healthcare Co., Ltd. All rights are reserved Edition ID: 88000043-MPD-BRE-01

No. 2258 Chengbei Rd, Jiading District, Shanghai, 201807

Business Consultation: +86 (21)-67076666

Email: info.global@united-imaging.com www.united-imaging.com