Shanghai United Imaging Healthcare Co., Ltd.

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Shanghai, China 2258 Chengbei Rd., Jiading District, Shanghai, 201807.

Email | info.global@united-imaging.com Business Consultation | +86 (21) - 67076666 After-sales Service | 4006 - 866 - 088

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Shanghai United Imaging Healthcare Co., Ltd. develops and produces a full portfolio of advanced medical imaging and radiotherapy equipment and offers medical IT and intelligent solutions. Founded in 2011 and headquartered in Shanghai, the company has subsidiaries and R&D centers across China, US, and other parts of the world. Half of its 3,300 employees work on research and development. To date, more than 3,000 hospitals worldwide are using UIH products.

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uCT 550

Powerful. Proven.

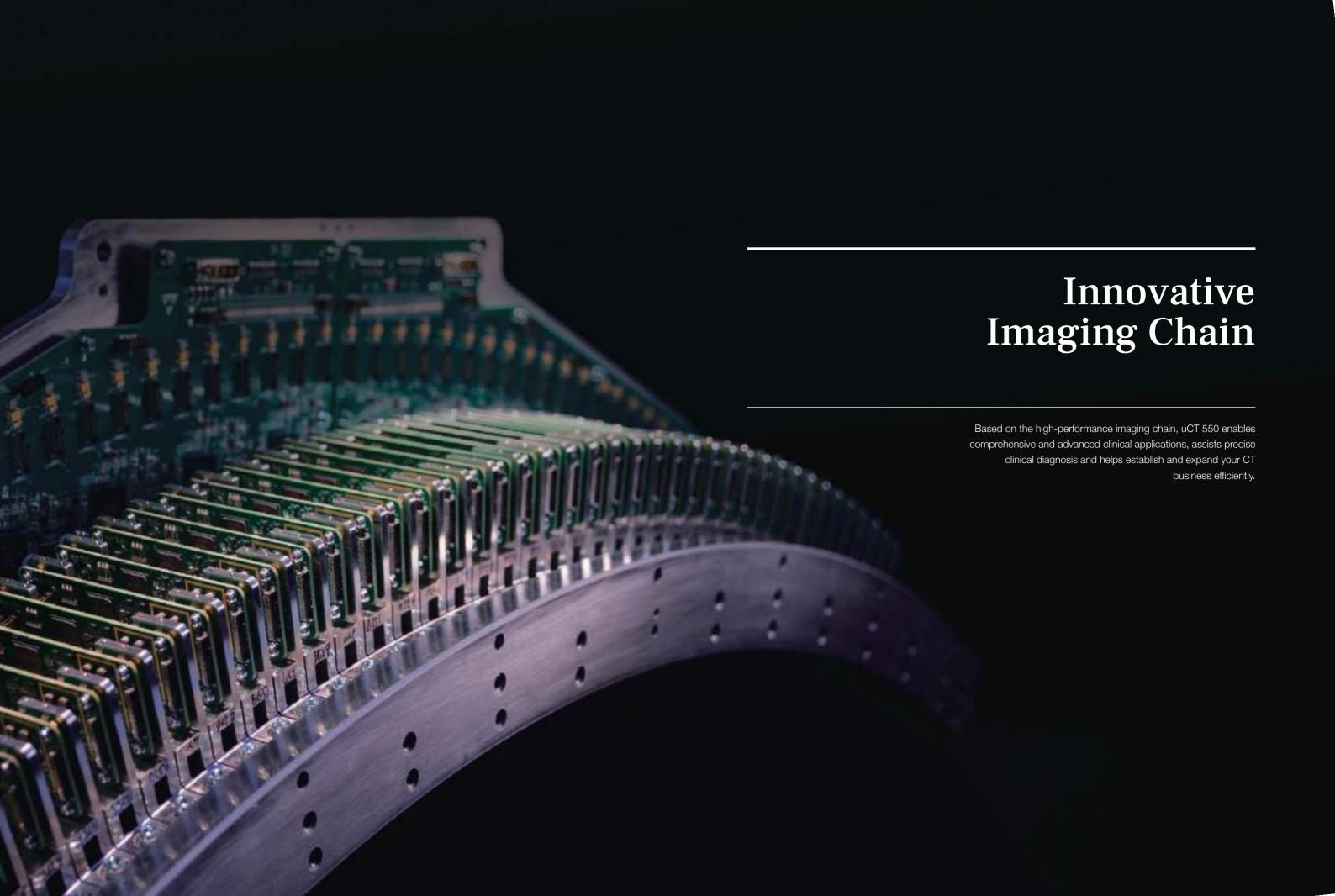
uCT 550

Along with the ultra-low noise Z-Detector, the powerful imaging chain and the advanced software platform, uCT 550 (40/80 Slice) enables high resolution images with low radiation dose. With our innovative Easy-Logic Intelligent prediction platform, the system helps to ensure high efficiency in operation and boosts daily patient throughput capability.

| Innovative Imaging Chain | Enhanced Clinical Performance

| Comprehensive Applications





Z-Detector

The ultra-low noise detector fundamentally improves the image quality.

Generation Split Design

Some Seneration

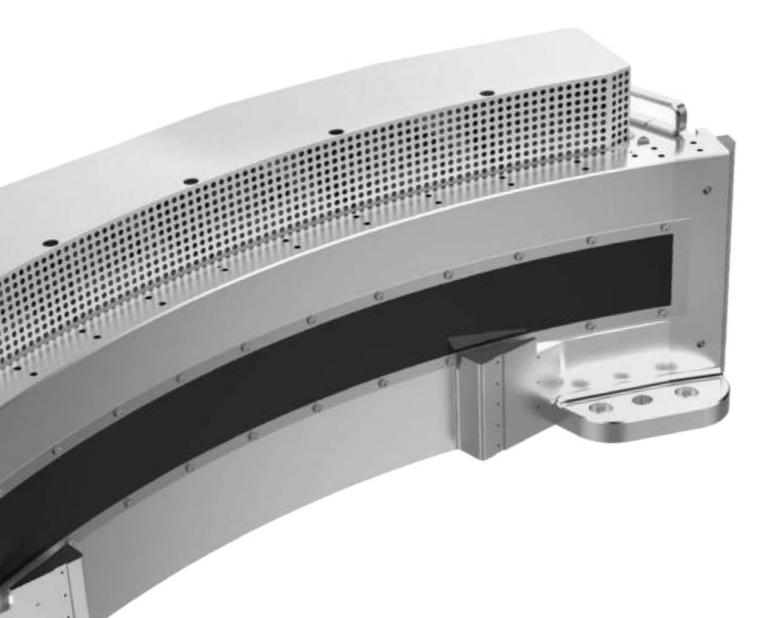
Solid-State GOS detector Split Design 3rd Generation

Solid-State
GOS detector
DOD Structur

4_{th}

Digital detector

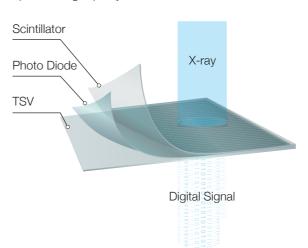
Through-Silicon Via
(TSV) Technology





Ultra-low Noise Design

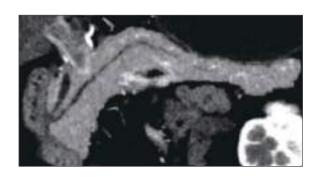
With Through-Silicon-Via (TSV), Z-Detector enables direct output of digital signal, which achieves not only overall noise reduction, but also helps to ensure optimal image quality with low radiation dose.





Fine Sampling

The very fine sampling voxels acquire massive amount of information, bringing 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.



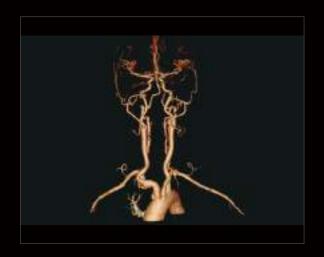
Conventional detector CTDIvol=58mGy

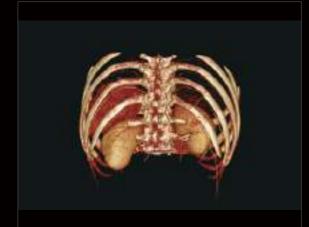


Z-Detector CTDlvol=40mGy

Improved Small Vessel Visualization

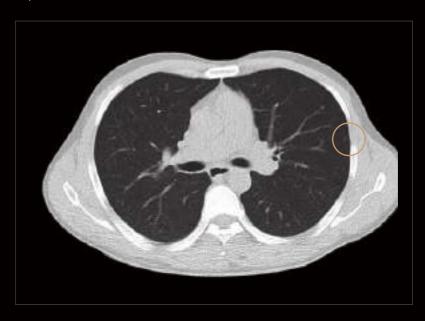
Wider z-direction coverage and thinner acquired images boosts small vessel visualization.





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?

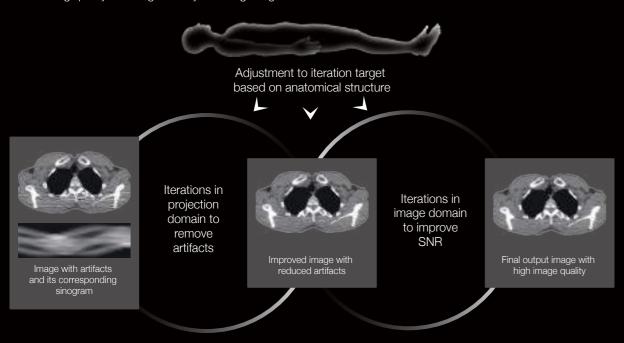




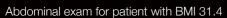
A solid nodule is verified through 0.55mm thin slice image reconstruction.

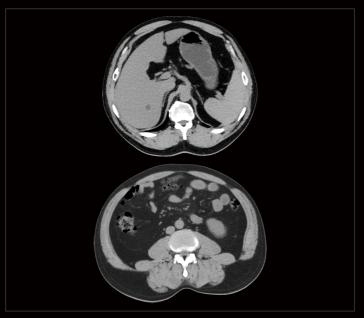
KARL 3D Iterative Denoising*

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









1024x1024 HD Reconstruction Matrix*

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













512x512 Reconstruction Matrix

1024x1024 Reconstruction Matrix

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.



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.

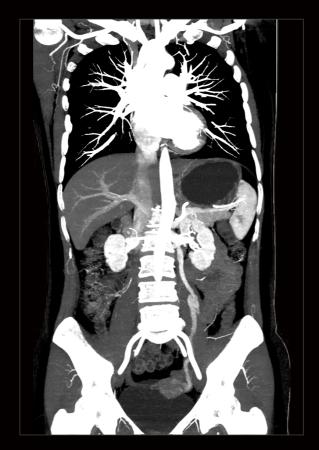
Powerful Hardware Platform

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.

Easy-Logic

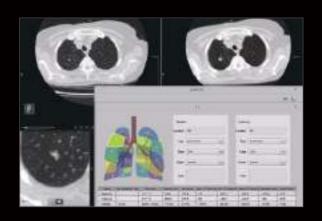
The system predicts the next user operation and is fully prepared prior to the command conducted, including tube preparation, gantry preparation and data pre-processing.

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





Integrated Advanced Applications on the Console



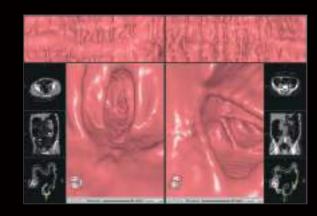
Lung Nodule Analysis

Assist detection, segmentation, and measurement of nodule.

Nodules quantitative analysis.

Follow-up analysis.

One-step structured report.



CT Colonoscopy

Automatic colon segmentation.

Electronic colon cleansing.

Virtual endoscopy.



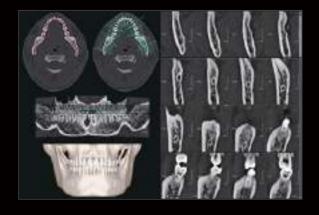
Lung Density Analysis

Lung Extraction and Contour Editing.

Pulmonary Density and Volume Measurement.

Emphysema Ratio Quantification.

Quantitative Data Analysis and Export.

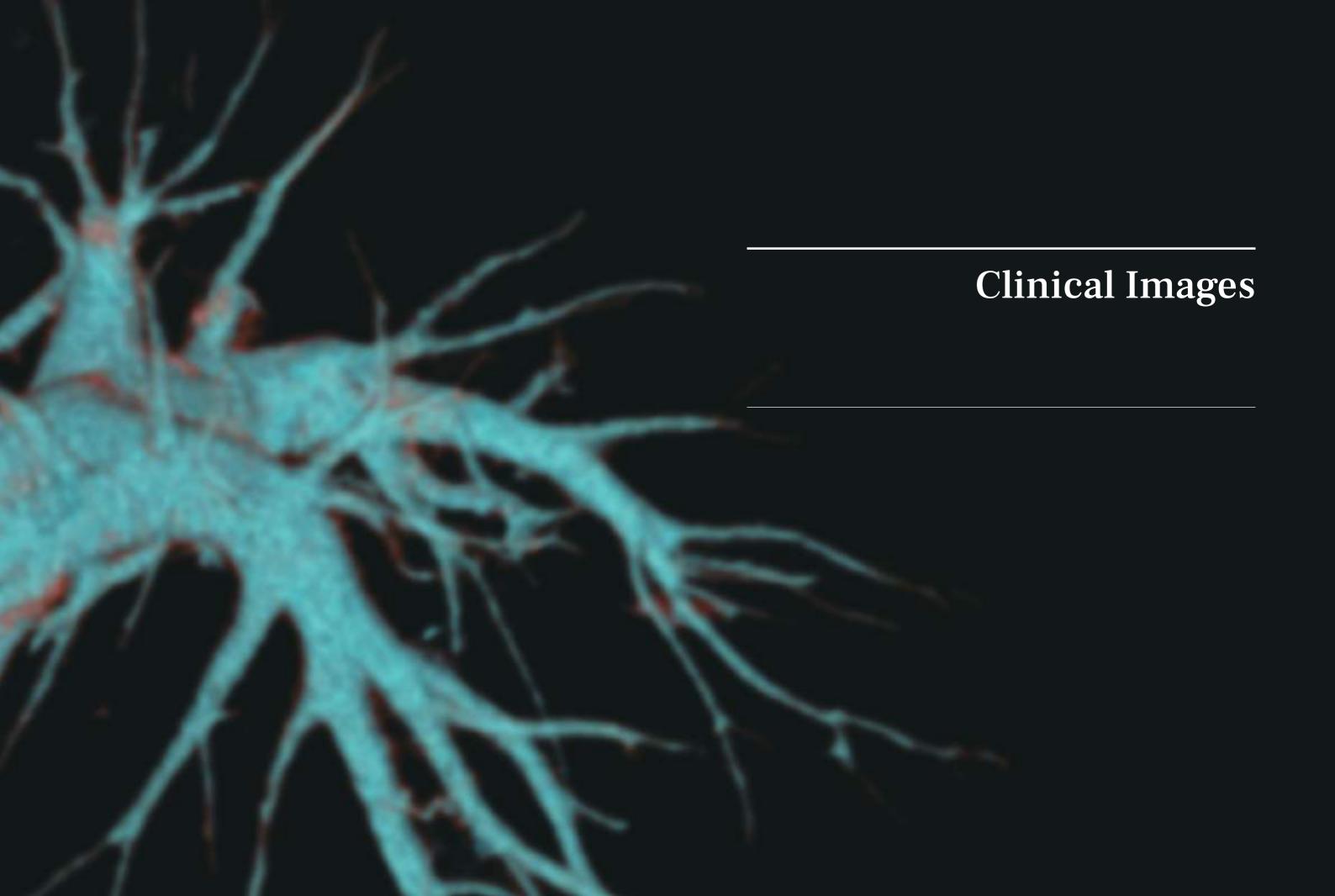


Dental Analysis

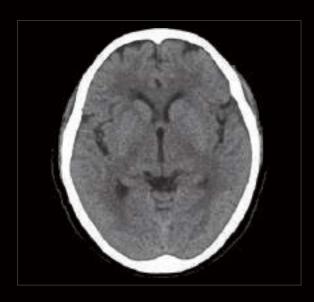
Plotting Panoramic Curve.

Marking Nerve Lines.

Sectional View Analysis.



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

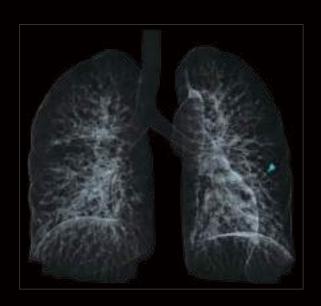


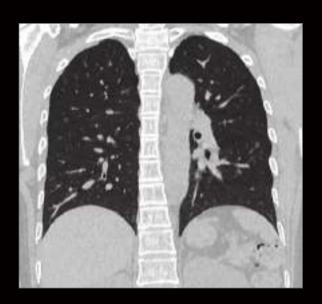




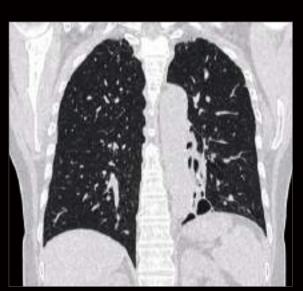


Finer image details with 0.55 mm slice thickness.

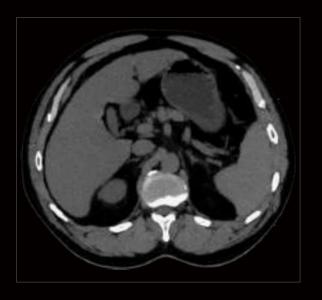






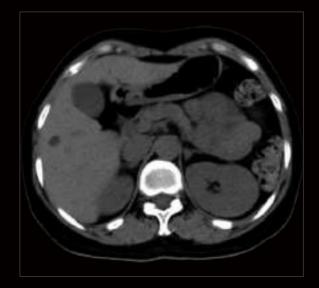


Ultra-low noise design boostts the visualization of bile duct and liver.









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



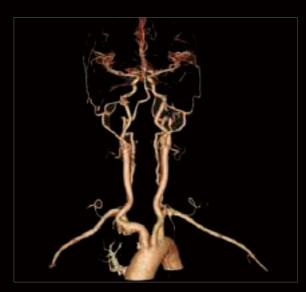






Single-click head & neck bone removal for clear vessel visualization and easy post-processing operation.



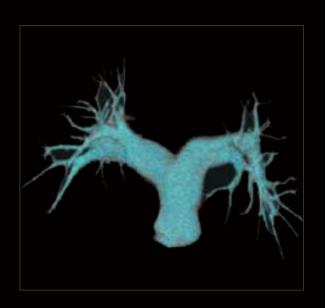




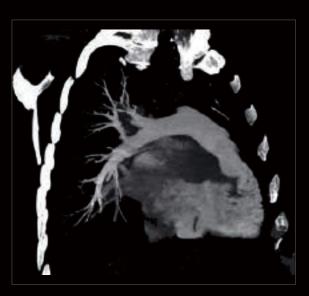


Wider detector z-direction coverage helps to conduct pulmonary CTA faster with less respiratory artifacts.







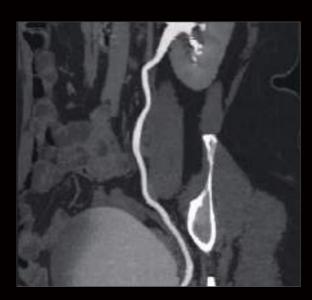


CTU is sed to obtain clear images of the whole urinary tract, including the kidneys, bladder and ureters.



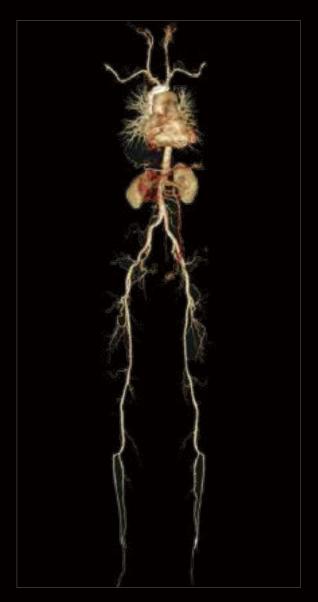






The powerful hardware platform helps to ensure rapid CTA scan capabilities with exceptional image quality





Human-Centered Design

Focusing on user experience, uCT 550 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.





Pleasing Aesthetics

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

User-Friendly Design

The product design delivers comfort, safety, efficiency and ease-of-use. By applying ergonomic principles the uCT 550 combines innovative design with optimal functionality in order to provide the best possible user experience, optimizing patient comfort during the examination.

Sophisticated Craftsmanship

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