

# Veterinary Cone-beam CT

Veterinary Cone Beam Computed Tomography



# 3 *in* 1

Dynamic FPD

CT  
Radiography  
Fluoroscopy

Your desirable CBCT within easy reach  
Independently Developed by SONTU for Veterinarians

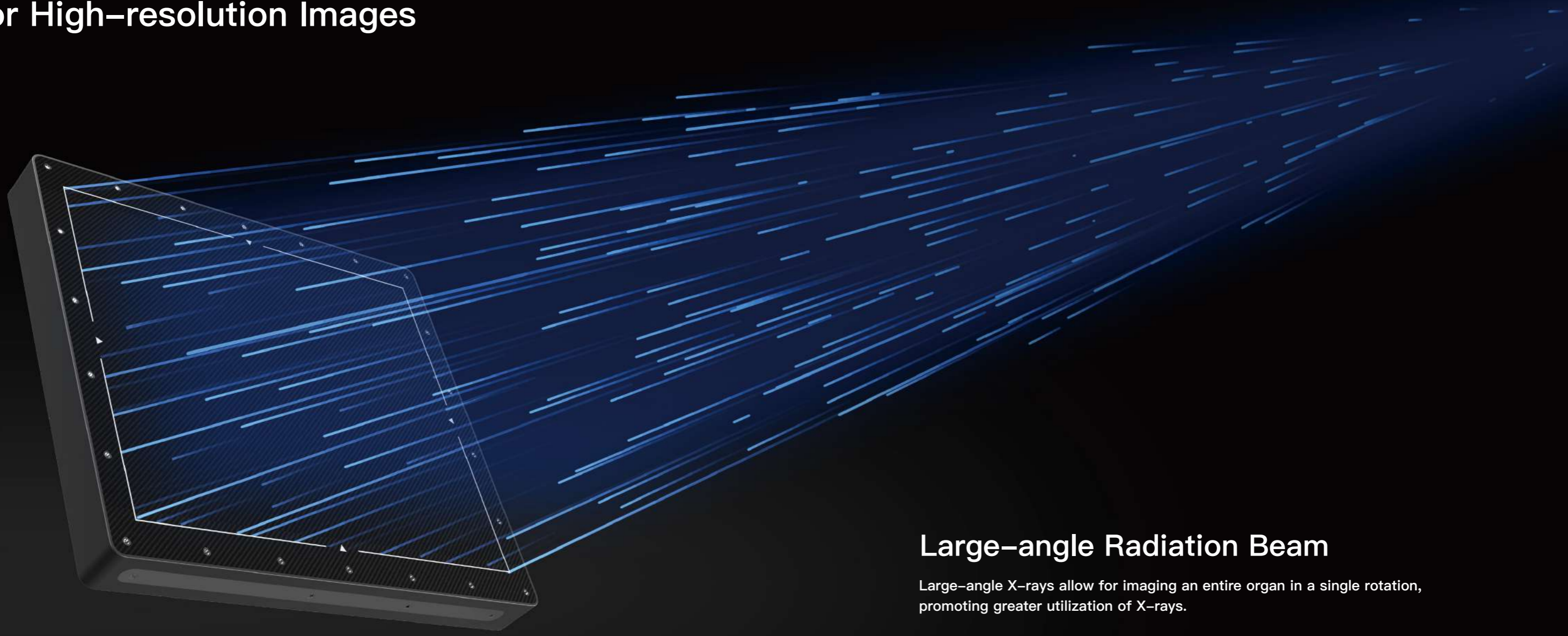




High Definition

Easy Diagnosis

# Exclusive Scanning and Imaging System For High-resolution Images



## Dynamic Range Pixel Array Detector Amorphous Silicon Cesium Iodide

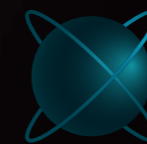
- Active area: 25 cm x 30 cm, pixel pitch: 120 μm
- Lossless image reconstruction: Large-angle cone beam, true isotropic voxel (identical length, width and height), and zero loss of axial image details
- A slice thickness of 0.24 mm, high spatial resolution, and rich details

## Large-angle Radiation Beam

Large-angle X-rays allow for imaging an entire organ in a single rotation, promoting greater utilization of X-rays.



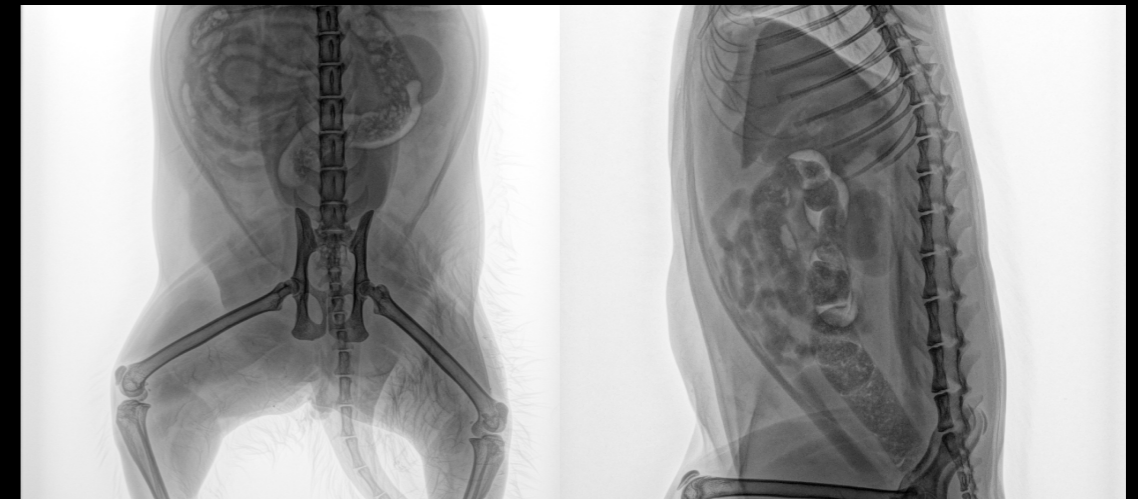
High spatial resolution for richer image details



Rapid reconstruction of 3D images



Easy imaging for complex anatomical structures



## Radiography

SONTU CBCT has the capability to capture two-dimensional images the same as conventional digital radiography, enhancing the benefits of this sought-after equipment.

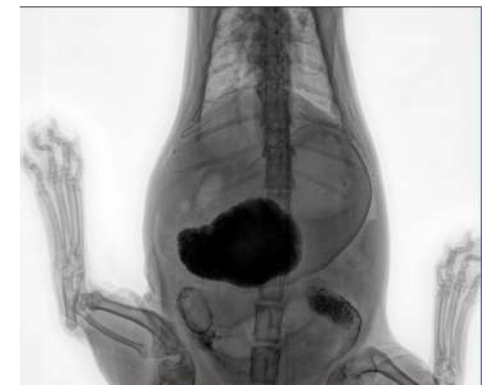
**Clinical Application:** Its clinical applications encompass the musculoskeletal, respiratory, and genitourinary systems.

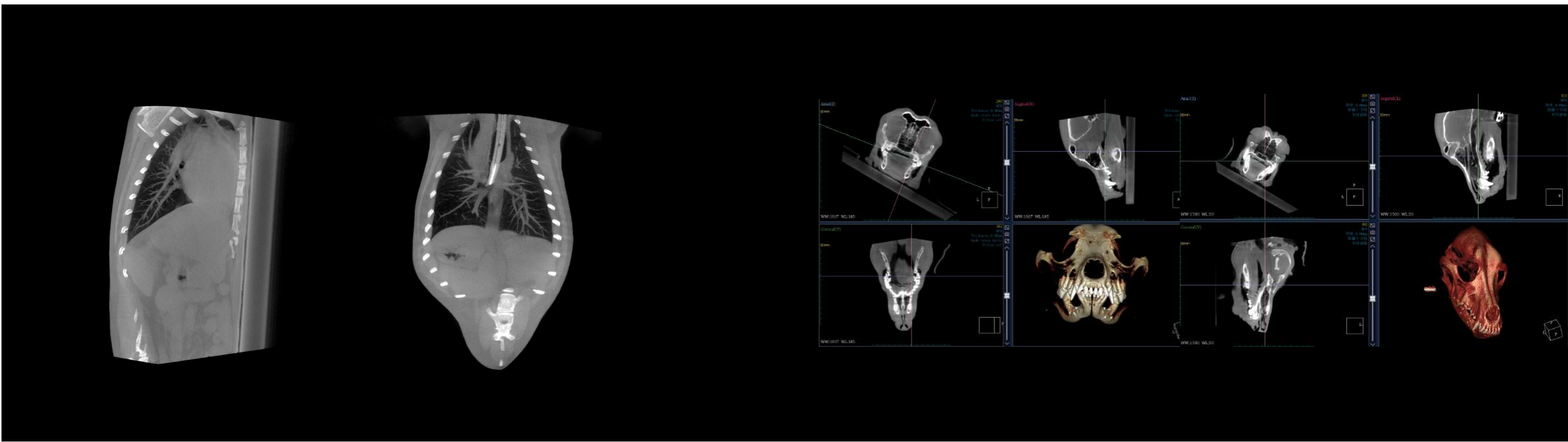


## Fluoroscopy

Fluoroscopy enhances diagnostic efficiency and reduces the risk of missed or incorrect diagnoses by analyzing moving anatomical structures.

**Clinical Application:** It's primarily used in clinical settings for real-time multi-angle observation of moving organs (such as the lungs, diaphragm, and digestive tract), orthopedic surgical interventions, contrast studies of the digestive system, and imaging of the urinary system, Rrespiratory, and genitourinary systems.





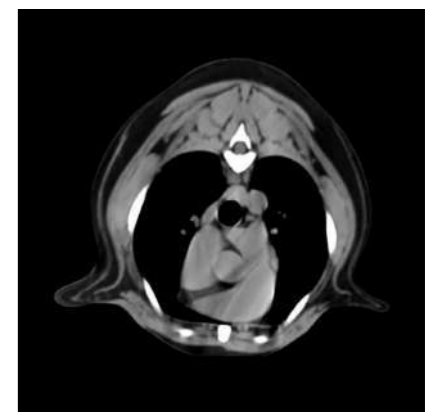
## Maximum Intensity Projection (MIP)

Maximum Intensity Projection (MIP) technology selects the maximum density pixels for composite projection, displaying blood vessels, calcifications, bones, and soft tissues in different shades of gray. It is mainly used for the detection of pulmonary nodules, observation of blood vessel paths, fractures, tumors, osteoporosis, etc.



## Multi Planar Reconstruction (MPR)

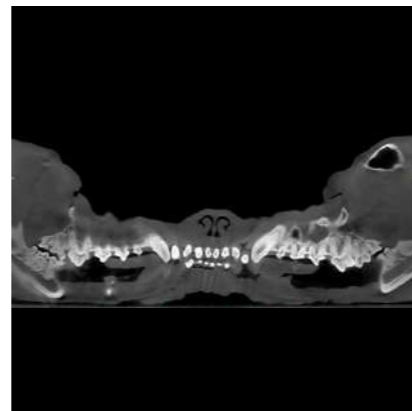
MPR is a post-processing method that 2D images of any tissue or organ level from original axial images. It can display internal structures and lesions, making it particularly useful for complex anatomical structures and organs. It is advantageous for diagnosing bone fractures, arterial dissection, and gallbladder and ureteral calculi.





## Curved Planar Reconstruction (CPR)

CPR is a post-processing tool that allows for the creation of a 2D panoramic image from the 3D volumetric data obtained from CBCT and helps visualize curved anatomical structures in a single image which is commonly used for dental evaluation.



## Volume Rendering (VR)

Volume Rendering can present a 3D, intuitive, and clear representation of the normal physiological state of the bones. It has high clinical value for the development and evaluation of surgical plans for orthopedic and plastic surgery, especially in cases with complex anatomical structures and positions.





### Extremely Fast and Efficient

- Scan duration: 19 seconds
- Reconstruction time: 40 seconds
- Shortened scan duration for reduced anesthesia risks



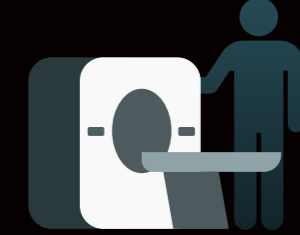
### Smart Operation

- Laser-assisted patient positioning
- Motorized table moving by one touch
- APR function for quick adjustment of parameter



### Low-radiation

- Ultra-low dose
- Less radiation exposure to both operator and pets



### Easy Installation

- Compatible with 110v/220v input power
- 260kg weight reduces room load-bearing
- Small 10m<sup>2</sup> footprint minimizes space requirement





- 1 **Low-noise Operation**  
Less than 70 dB
- 2 **Lightweight**  
Less than 260 kg
- 3 **Compact Structure**  
2660 mm × 1670 mm × 1600 mm
- 4 **460 mm Large Aperture**  
suitable for projection of medium-sized pets
- 5 **Auxiliary Positioning**  
Laser-assisted patient positioning
- 6 **Emergency Stop**  
Protecting life in case of emergencies

Color-changing LED strips  
Clear status indication

○Blue — Standby   ○Orange — Expose   ○Red — Emergency stop   ○Green — Prepare



**Storage Room**  
A handy space for medical supplies



**Table Moving by One Touch**  
Motorized pushing, lifting and lowering



**V-shaped Mattress and Auxiliary Belt**  
Ideal for the immobilization of animals



**Rollers Configured**  
Easy movement



## Technical Specifications

X-ray Source	Rotating anode	Scan Duration	19s
FOV	17cm×20cm	Reconstruction Time	40s
Tube Voltage	50–125 kV	Weight	260kg
Tube Current	2–16mA	Scan Mode	360° rotational scanning
Focal Spot	0.3mm、0.6mm	Spatial Resolution	1.7 lp/mm
Rotational Center Aperture	460mm	Power Supply	220VAC±10% 110VAC±10%
Weight Bearing of Bed	<50kg		50HZ /60HZ
Pixel Pitch	120µm	Slice Thickness	0.24mm



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## Dimensions in millimeter

