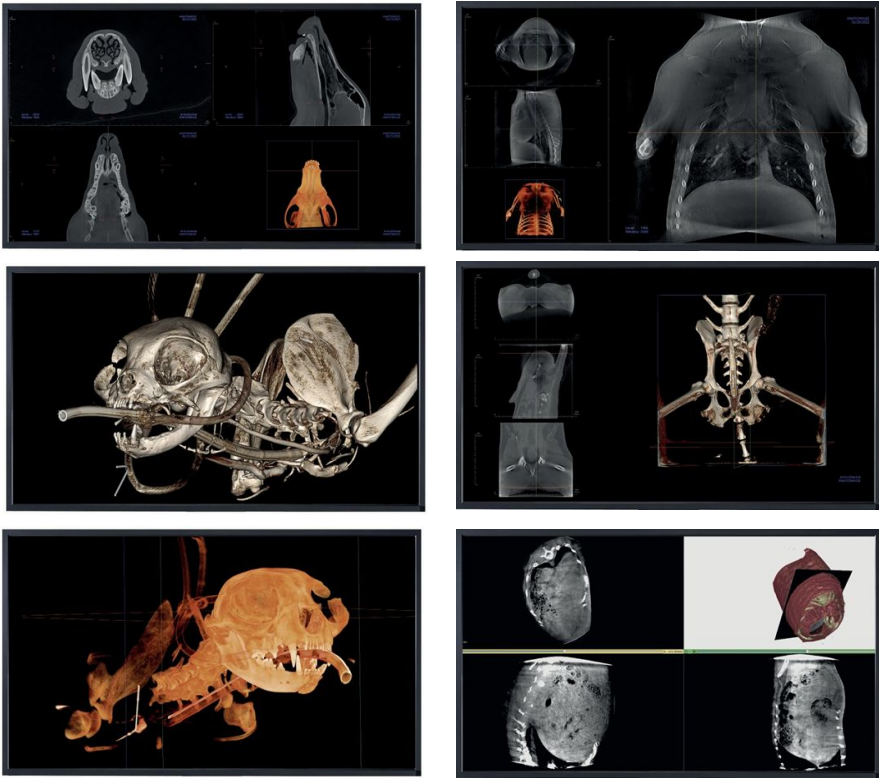


CLARIS V

The Next Dimension of 3D Veterinarian Imaging

Manufactured in
California USA



Compact
The Claris V is highly compact and can fit into almost any small clinic or mobile practice.



Mobile
With both the gantry and table equipped with wheel, the Claris V can be moved around effortlessly.



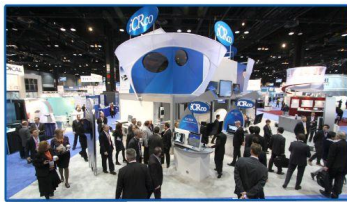
Lightweight
Weighing in at only 500lbs, the Claris V is perfect for those needing an easily portable imaging device.



Low Power
The Claris V only requires a simple 220V power source to acquire premium 3D images.



CELEBRATING
32 YEARS



Who We Are

At iCRco, our mission is to revolutionize medical imaging through continuous innovation and the development of advanced imaging solutions. We are dedicated to improving patient care by providing medical professionals with reliable, high-quality, and user-friendly imaging systems. With a focus on efficiency, accuracy, and patient comfort, we aim to empower healthcare providers to make confident diagnoses and deliver personalized treatment plans. By leveraging our expertise in digital radiography, computed radiography, and CBCT, we strive to enhance the efficiency and effectiveness of medical imaging, ultimately contributing to better patient outcomes and improved healthcare delivery.

What We Do

iCRco, Inc. is a leading provider of innovative medical imaging solutions, specializing in digital radiography, computed radiography, and cone beam computed tomography (CBCT) technologies. With a legacy of over 30 years, iCRco is recognized for its commitment to excellence, reliability, and advanced engineering. Our comprehensive product portfolio includes state-of-the-art imaging systems designed to enhance patient care and improve diagnostic accuracy. From compact and mobile solutions to advanced 3D imaging systems, we strive to deliver cutting-edge technology that meets the evolving needs of medical professionals worldwide.

Built For Veterinary Practice

Total Mobile Solution

Complete with Ultrasound and CT

The Claris V CBCT, equipped with large 17" by 17" detectors and cesium sensor technology, streamlines 3D studies for various veterinary applications. It offers detailed information and low-dose tomosynthesis for cost-effective and time-efficient workflow. This all-in-one cone beam CT machine serves emergency care, surgical planning, and general imaging in veterinary medicine.

CBCT in veterinary medicine has several applications:

- 1. Dental and oral examinations:** CBCT is particularly useful for evaluating dental and oral conditions in animals, such as tooth root infections, dental fractures, and oral tumors. It provides detailed 3D images of the oral cavity, allowing veterinarians to plan and perform dental procedures more accurately.
- 2. Orthopedics:** CBCT can be used to assess musculoskeletal conditions in animals, including fractures, joint diseases, and skeletal deformities. It provides detailed images of bones and joints, enabling veterinarians to diagnose and plan treatments, such as orthopedic surgeries or the fitting of orthopedic devices.
- 4. Nasal and sinus evaluations:** CBCT is valuable for examining the nasal and sinus cavities in animals. It helps in identifying nasal masses, foreign bodies, or structural abnormalities that may be causing respiratory issues or other related conditions.
- 5. Pre-operative planning:** CBCT imaging allows veterinarians to perform detailed preoperative planning for complex surgeries. It provides precise 3D visualization of the anatomical structures involved, aiding in surgical decision-making and reducing the risk of complications during procedures.



Choosing FBCT vs CBCT

Cone Beam Computed Tomography

The choice between Cone Beam Computed Tomography (CBCT) and Fan Beam Computed Tomography (FBCT) depends on the specific clinical scenario, imaging requirements, and available technology. Both CBCT and FBCT have their advantages and limitations, and the preference for one over the other can vary. Here are some considerations:

1. Image Resolution and Detail: In the past FBCT typically offered higher spatial resolution and image detail compared to CBCT although this is no longer the case. In fact it's the opposite. The fan-shaped X-ray beam used in FBCT produces thinner slices and allows for greater anatomical visualization. This can be advantageous for certain applications that require high-resolution imaging, such as imaging small structures or detecting subtle abnormalities.

2. Radiation Dose: CBCT generally involves a lower radiation dose compared to FBCT. The cone-shaped X-ray beam used in CBCT focuses on the region of interest, resulting in reduced radiation exposure to surrounding areas. This can be beneficial for imaging scenarios that require multiple scans or when imaging more radiation-sensitive regions, such as the head and neck.

3. Field of View: CBCT typically provides a larger field of view (FOV) compared to FBCT. CBCT is commonly used for imaging specific regions, such as the maxillofacial area or dental structures, where a wide FOV is not always necessary. FBCT, on the other hand, is often employed for full-body imaging or larger anatomical coverage, as it can capture a larger volume in a single scan.

4. Clinical Applications: CBCT is particularly well-suited for dental, maxillofacial, and orthopedic imaging due to its ability to capture fine anatomical details in localized regions. It is commonly used in dentistry, orthodontics, and implant planning. FBCT is more widely utilized in general radiology, oncology, and larger anatomical evaluations, where comprehensive imaging of the entire body or specific organs is required.



Physics of FBCT vs CLARIS V

Cone Beam Computed Tomography

Fan Beam CT:

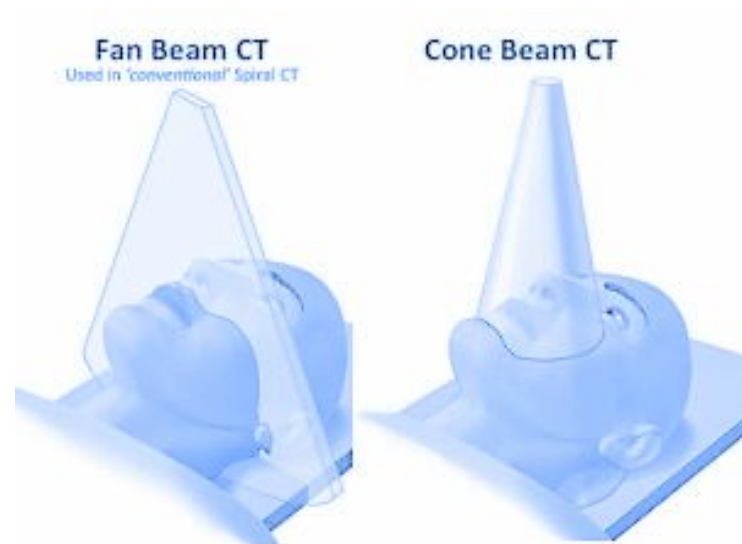
Fan Beam CT, also called multislice CT, uses a narrow fan-shaped X-ray beam that rotates around the patient to gather data. These data are then mathematically processed to create a detailed cross-sectional image.

Fan Beam CT is traditionally used for high-resolution imaging of specific regions like the brain or chest, thanks to thin slices. However, recent advancements in detectors, software, and computing power have boosted CBCT.

CLARIS V Cone Beam CT:

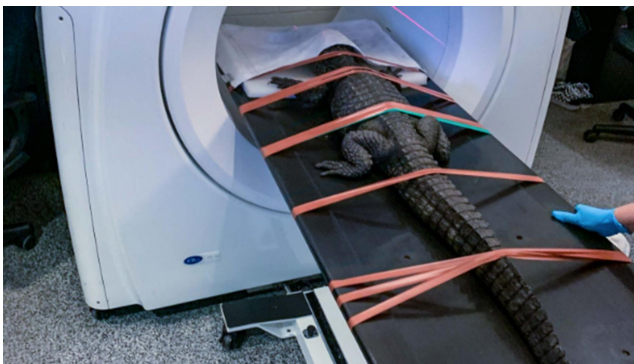
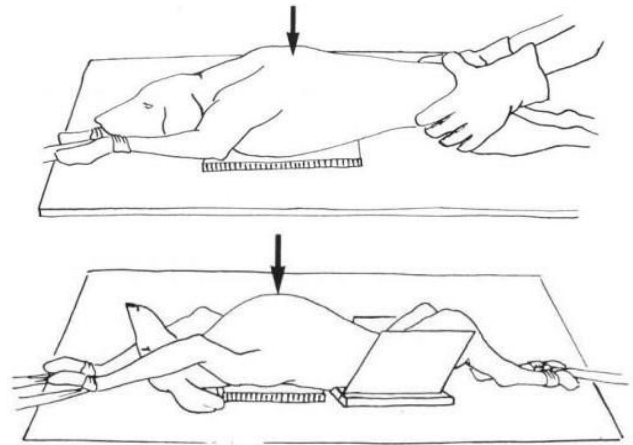
Cone Beam CT uses a cone-shaped X-ray beam, rotating around the patient for 360-degree X-ray projections. It covers a larger area, enabling 3D data collection in one rotation. The diverging X-ray beam and detector panel create a 3D volume, reconstructed with algorithms like cone beam reconstruction, yielding detailed 3D images. Unlike Fan Beam CT, Cone Beam CT provides volumetric data, not just thin slices.

CBCT shines in capturing 3D data for larger areas, making it valuable in dental imaging, orthopedics, and image-guided interventions. The key differences lie in the acquisition process between Fan Beam CT and Cone Beam CT (CBCT).



What to do before CBCT scanning?

1. **Anesthesia (or sedation):** Try to use deep sedation or respiratory anesthesia to relax the patient's muscles enough for easy positioning.
2. **Remove clothing and metallic accessories (such as collars)** from the patients before exposure to reduce image artifacts and improve image quality.
3. **V-shaped cushions** can be used for spine images.
4. **Positioning without sedation (anesthesia)** can be used to take a test image.
5. **Positioning:** Frontal limbs stretched forward, and...
(The sentence seems to be cut off.)



How to perform a study with CBCT?

Image Acquisition Phase

1. During the acquisition phase, the patient is positioned on the table with a stable head to avoid any movement during the scanning.
2. After placing the patient, an exploration image is taken to ensure that the area of interest is within the field of view (FOV).
3. After verifying the exploration image, the scanning can be performed. The cone beam and the detector rotate simultaneously around the patient for 360°. The cone beam passes through the center of the area of interest.

Image Reconstruction Phase

1. During the reconstruction phase, hundreds of regular images are obtained and sent to specialized software to create the 3D reconstruction of the data and the multiplanar images (MPR) in the axial, sagittal, and coronal planes.


Multifunctional Control Panel

1. Patient positioning assisted with lasers
2. Automatic table movement through the gantry.


“Point of Care” CBCT

Cone Beam Computed Tomography

Point-of-care CBCT (Cone Beam Computed Tomography) refers to the availability of CBCT imaging technology directly in clinical settings, such as dental offices, medical clinics, or emergency rooms. Here are some reasons why point-of-care CBCT is considered important:

\$1,050
Average Charge
Per Scan



Monthly
Easy Financing &
Monthly Payments



15 mos.
Clarix V
Pays For Itself

The 3DCT imaging modality provides diagnostic clarity that transforms your treatment capabilities.

Clarix V will provide enough data in a single scan to reduce multiple anesthesia and ease stress on the patient and owner.

Clarix V is a revenue producer. Learn how clinics are transforming patient care while the Clarix V pays for their practice.

Immediate Diagnosis: Point-of-care CBCT allows healthcare professionals to obtain immediate diagnostic information at the patient's location, without the need for external imaging facilities or referrals. This accessibility enables prompt and timely decision-making, leading to quicker initiation of appropriate treatment.

Better Patient Management: Having CBCT technology readily available at the point of care improves patient management and reduces the need for multiple appointments and referrals. It allows for immediate evaluation and assessment of the patient's condition, leading to efficient treatment planning and better patient outcomes.

Accurate Treatment Planning: CBCT provides detailed 3D images of anatomical structures, which aids in accurate treatment planning. Point-of-care CBCT allows clinicians to visualize and assess complex cases on-site, leading to precise diagnosis, better surgical planning, and improved treatment outcomes. It also enables real-time adjustments to treatment plans based on immediate imaging findings.

Minimized Delays: Eliminates travel to imaging centers, reducing discomfort.

Rapid Emergency Intervention: Crucial in emergencies, allowing quick decisions.

Cost and Time Savings: By eliminating the need for off-site imaging centers and subsequent referrals, point-of-care CBCT can lead to cost and time savings for both patients and healthcare providers. Patients can receive comprehensive care in a single location, reducing the financial burden and inconvenience associated with multiple appointments and imaging procedures.

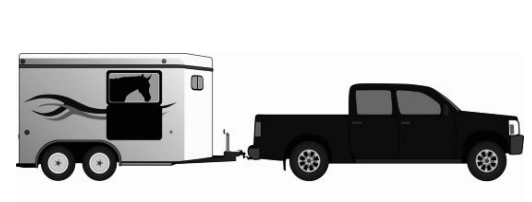
Continuous Care: Point-of-care CBCT enables a seamless continuum of care by providing imaging services within the clinical setting. Healthcare professionals can correlate CBCT findings with clinical examinations and other diagnostic tests, ensuring comprehensive evaluation and ongoing monitoring of patient progress.

Mobile CT Growth

Cone Beam Computed Tomography

The use of CT technology in mobile units, such as RVs or mobile clinics, has gained popularity in recent years, particularly in areas with limited access to medical facilities or in emergency situations where on-site imaging is crucial. Mobile CT units are equipped with a compact CT scanner that can be transported and set up in various locations, providing imaging services on the go.

In short, the advancements in portable CT scanner technology, dose reduction techniques, and wireless connectivity may contribute to improved imaging capabilities and efficiency in the future. However, for the most up-to-date information on any breakthroughs or innovations in this field, it is advisable to consult scientific literature, medical news sources, or healthcare professionals specializing in radiology.

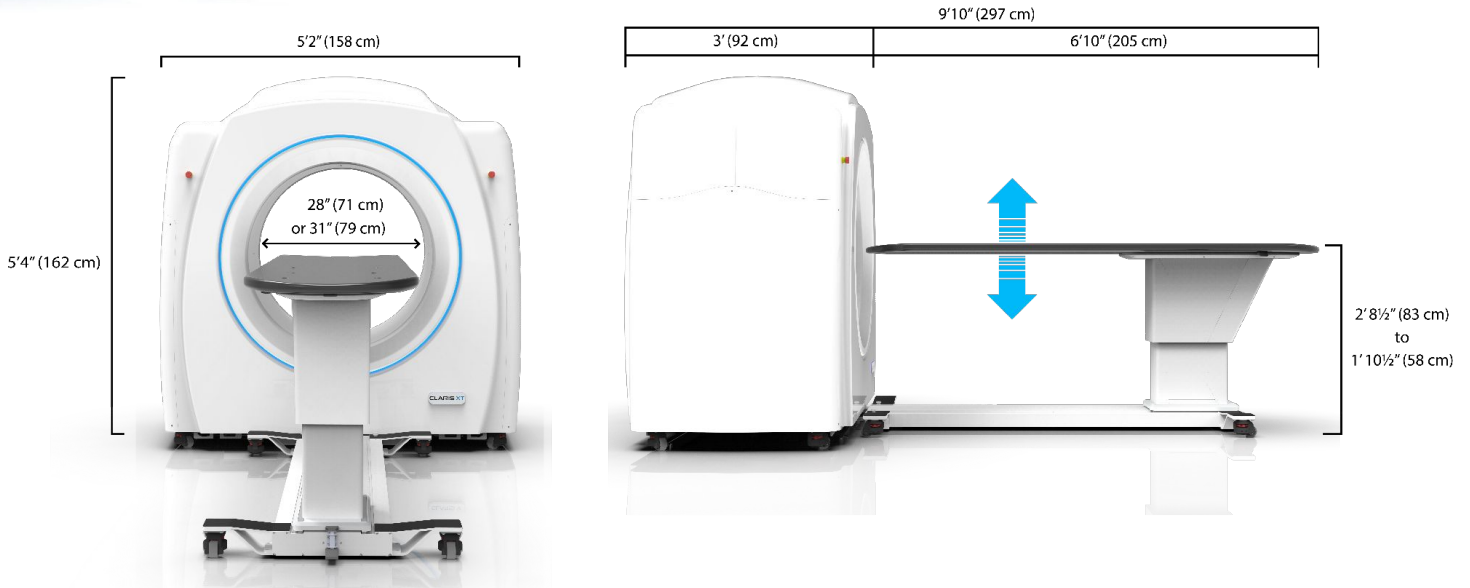


TYPICAL CT MOBILE CLINIC

- 1. Accessibility:** Mobile units can reach remote areas, underserved communities, disaster-stricken regions, or events where immediate medical imaging is necessary.
- 2. Timeliness:** Mobile CT units can rapidly deploy and provide imaging services on-site, reducing the time required for patients to travel to a fixed medical facility.

ICRCO MOBILE CLINIC SMALL & ECONOMICAL

- 3. Flexibility:** Mobile units can be customized to meet specific needs and equipped with necessary amenities, such as patient examination rooms, control areas, and image interpretation stations.
- 4. Screening Programs:** Mobile CT units can be utilized for targeted health screening programs, such as lung cancer screenings or cardiovascular risk assessments, reaching a wider population.



CLARIS V, the revolutionary all-in-one cone-beam CT system transforming diagnostic imaging. With advanced Cesium detector technology, it combines the functionalities of a traditional x-ray room, fluoroscopy, and CT imaging. Offering streamlined workflow, it enables various studies such as chest, cranial, dental, and orthopedics in a single solution.

CLARIS V's 17" by 17" field-of-view, powered by Cesium Sensor Technology, delivers exceptional chest images for early cancer detection. Experience the ultimate in veterinary care with CLARIS V's comprehensive cone-beam CT capabilities.

Larger, Consistent Field-of-View

Traditional flat panel detectors have a limited field-of-view and can miss vital anatomical information, the Claris V captures more important diagnostic image data in a single exposure with its large format 17X17 inch sensor. Cesium Sensor technology reduces dose and improves CT resolution at very high frame capture rates, reducing movement artifacts and improving patient outcomes.

Patient Position	Supine	Motorized Table	
Reconstruction	<3 minutes		
Weight and Dimensions	Scan Unit	Width	60"
		Depth (max)	116" (with patient bed)
		Height	60"
		Total Weight	500 lb (with patient bed)
		Bore	31" / 28"
Patient Table Load Capacity	135Kg		
Software	XC-CBCT acquisition workstation with export capabilities to PACs and multiple viewing software. DICOM Compatible		
Power Required	220-250VAC 50/60Hz. 30 A		
Transport and Storage Conditions		Working Conditions	
Range of Temperature	0° – 50° C	Range of Temperature	10° – 35° C
Relative Humidity	20 – 90 %	Relative Humidity	30 – 75 %
Atmospheric Pressure	700 – 1060 HPA	Atmospheric Pressure	700 – 1060 HPA

X-ray Source	High frequency, constant potential (DC), rotating anode Tube Power: 5kW (e.g. 100kV, 50mA) Tube Power: 18 kW (e.g. 120 kV, 150 mA) Max. Tube Voltage: 120 kV Max. Tube Current: 100 mA Focal Spot Size: 300 µm / 600 µm	
Acquisition Technique	X-ray, pulsed series, and Pulsed Fluoroscopy	
Scan Time Tomosynthesis	15 Seconds 2X2 binning, 30 seconds 1X1 binning	
Image Detector	17x17" amorphous SiTFT w/ CsI(Tl) 140 µm pixel pitch	
Possible Single Image Resolution	3072x3072 1536x1536 1024x1024	Volume of Interest Selectable up to 25X25X25 CM
Grey Scale	16 bit (65,536 gray levels)	
Voxel Size	≥ 85 µm	

*Processing and display time dependent on processor speed, RAM disk access time, and video card.
© 2023 iCRco. All rights reserved. BR070623AUS *Design & Specifications are subject to change without notice



CLARIS V



SCAN TIME
15 seconds Standard Resolution
30 seconds High Resolution

Claris V CBCT & AXIS Patient Table
(client can choose length of the table)

Workstation
Computer PC
(2) 27" High Resolution Monitors
Mechanically Adjustable Table

Acquisition Software
XC™ Acquisition software

Review Software
3D reconstruction software
(various options)

Anatmage
Invivo





**140 Micron Pixel Pitch
85 Micron Voxel Pitch**

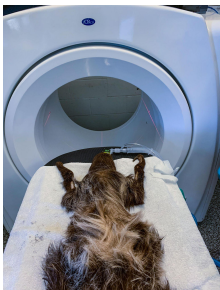
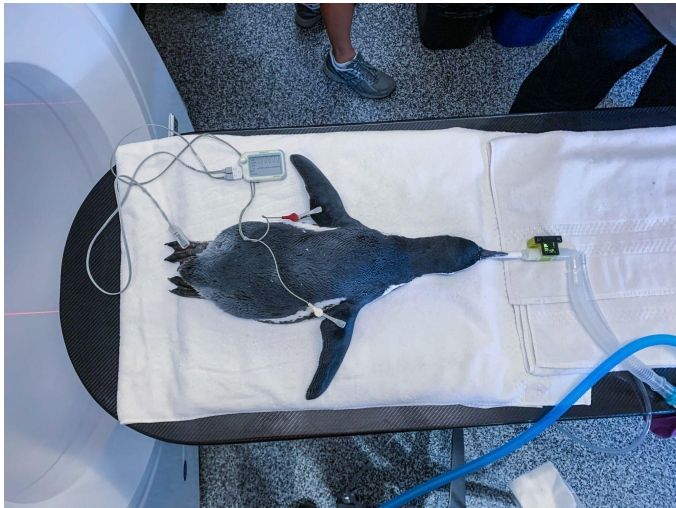
FULL DIAGNOSTIC XRAY
FLUOROSCOPY

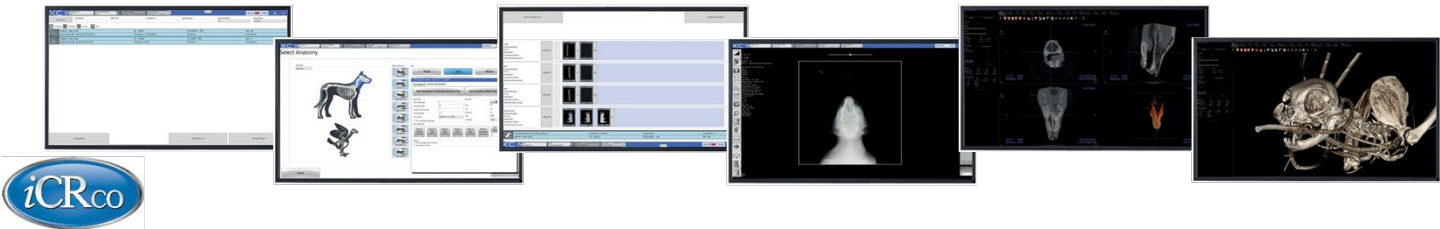
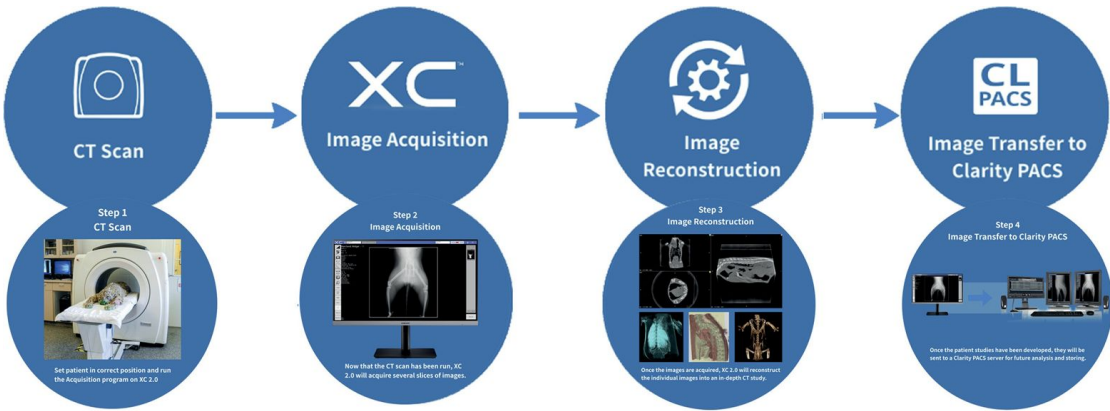
**430 x 430 mm
(17" x 17") Sensor Size**

COMPUTED TOMOGRAPHY (CT)
HIGH RESOLUTION

**16 Bit Large Area
Dynamic Sensor**

COMPETITIVE PRICE
ULTRA LOW-DOSE





XC Image Capture Acquisition from iCRco, Inc., plays a pivotal role in capturing images from a Cone Beam Computed Tomography (CBCT) scanner. Through the advanced ICE-4 processing, this software is capable of reconstructing these images with precision. Once the reconstruction is complete, the software seamlessly transmits the data to a 3D CBCT viewer. In this viewer, healthcare professionals can delve into further diagnosis and analysis, leveraging the three-dimensional perspective to gain insights into intricate anatomical structures and pathologies. This integrated process enhances the efficiency and accuracy of medical imaging, ultimately contributing to improved patient care and treatment planning.

IMAGE

Claris V | Tomography

CAPTURE

XC ICE-4 | Acquisition

REVIEW

Clarity PACS | Archive

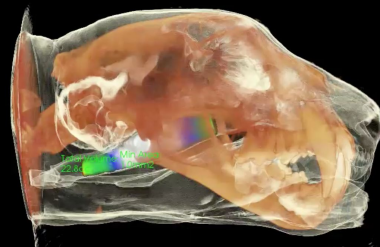
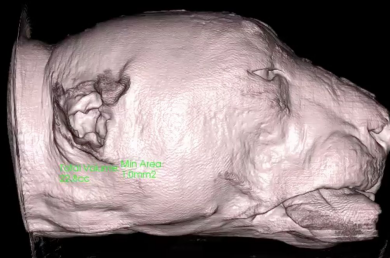
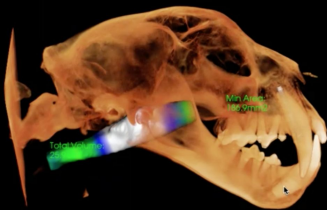
Claris V with Cesium Sensor detector technology, allowing for a larger field-of-view, full chest X-Ray image with superior image quality. The Claris V is capable of replacing your entire X-Ray room in a smaller, more efficient form factor.

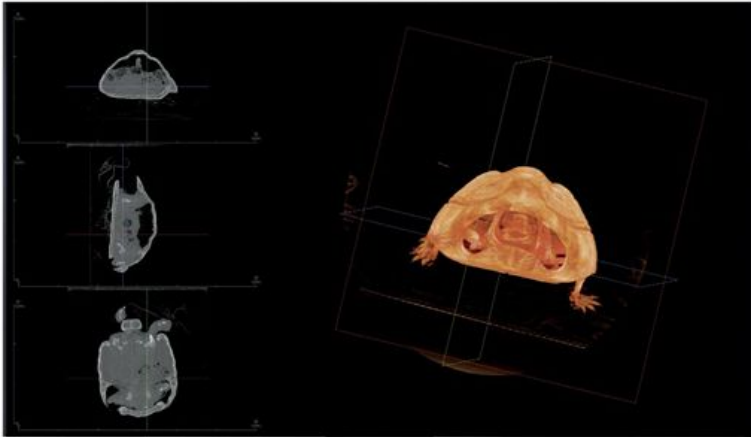
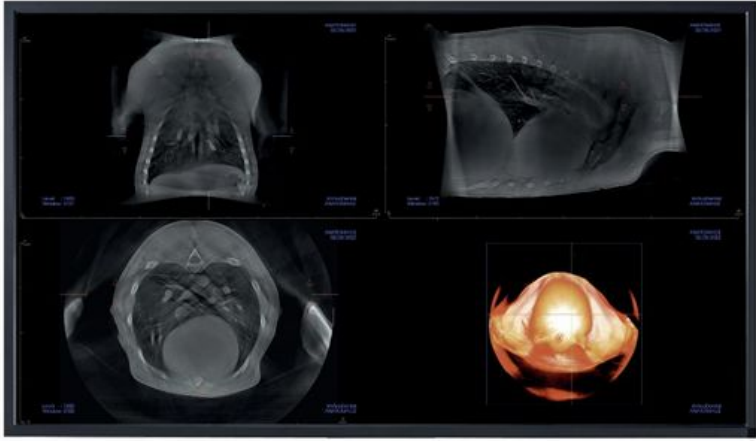
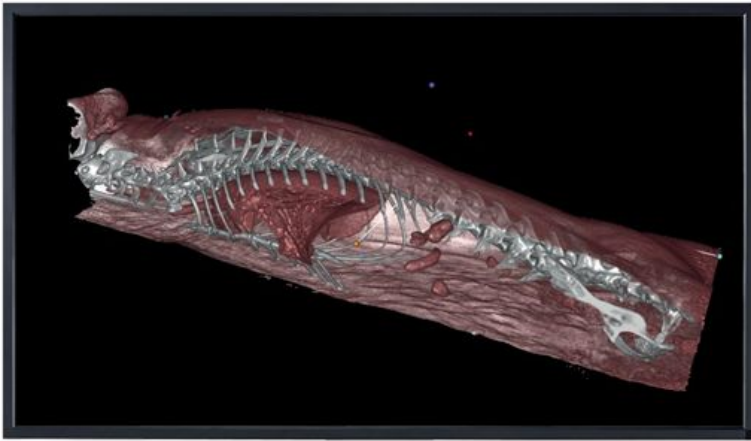
XC touchscreen acquisition with ICE-4 Enhancement Processing provides all-new features including, "Image Display State" to ensure balanced presentation of both soft tissue, overlapping bone structures, and automatic analysis of image characteristics to optimize processing.

Our fully web-enabled and integrated PACS solutions help transition your practice into a safe, secure, and filmless environment. Clarity PACS™ supports all your current and future imaging needs.

SCAN TIME

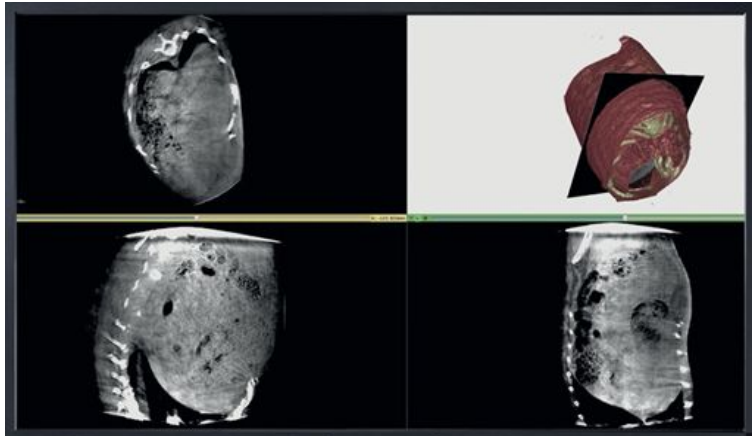
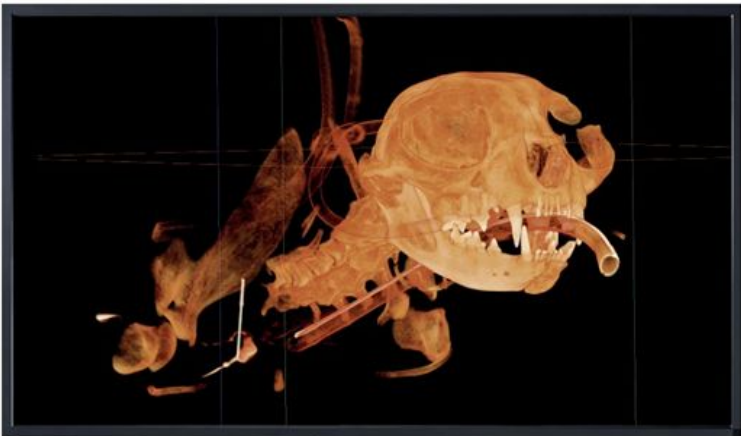
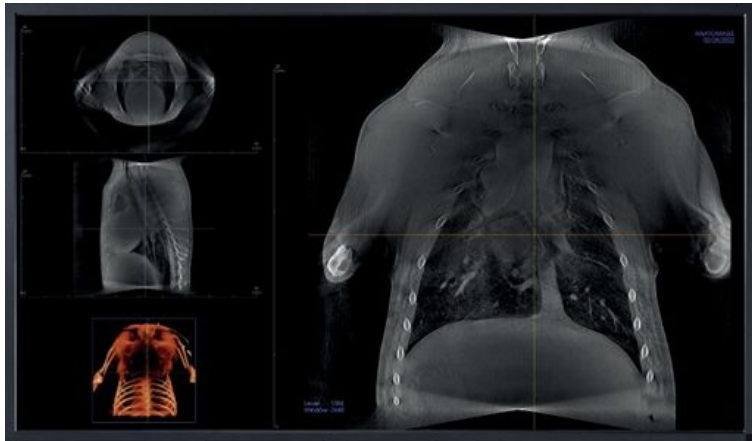
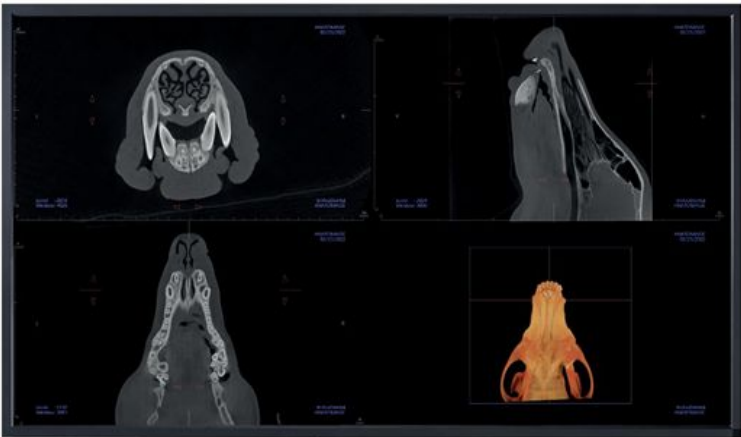
15 seconds Standard Resolution
30 seconds High Resolution





Spine Imaging
Nasopha-Ryngeal Disorders Imaging
Static Radiology Imaging

Nasal Cavities Imaging
3D Simulations
Front Legs Imaging



Dental Imaging
3D Full Skull Imaging
Rear Legs Imaging

Lungs Scans Imaging
Abdominal Imaging
Internal Organs Imaging

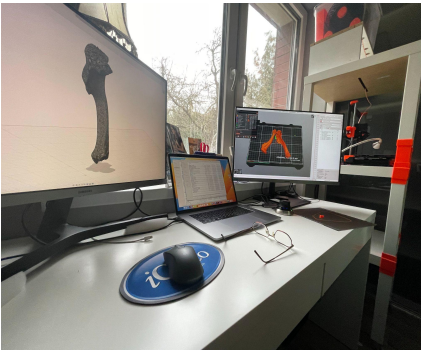
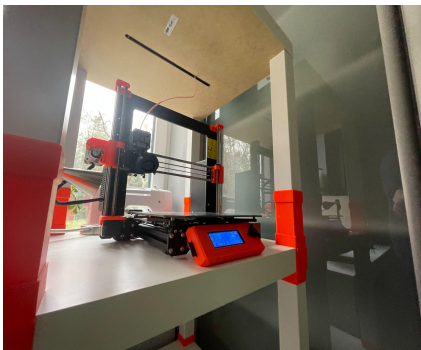
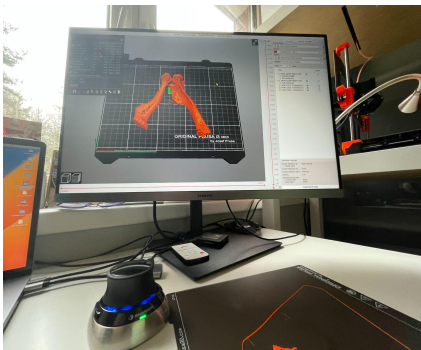
3DCT Printing

Cone Beam Computed Tomography

In recent years, iCRco, Inc. has significantly intensified its development efforts, placing a strong focus on advancing its state-of-the-art 3D Cone Beam Computed Tomography (CBCT) solution. This strategic shift has resulted in a growing installation base and a more extensive exploration of its potential applications, revealing that the CBCT technology is rapidly gaining traction across various fields.

One particularly compelling application of this cutting-edge technology lies in the domain of veterinary medicine. Here, the CBCT capabilities have been harnessed in an extraordinary manner by veterinarians caring for their K-9 patients. These advanced 3D CT images offer an unparalleled level of detail and precision when it comes to examining the skeletal structures of our canine companions. Veterinarians can now spot even the most subtle fractures, deformities, or orthopedic issues with remarkable accuracy, aiding in swift and accurate diagnoses.

Once this thorough evaluation is complete, the ingenuity of the CBCT technology doesn't stop there. Veterinarians are now able to seamlessly integrate cutting-edge 3D printing technology into their practice. By skillfully translating the digital data acquired from the CBCT scans into tangible physical models, they can craft bespoke implants or prosthetics that align perfectly with the unique needs of each patient. This groundbreaking approach not only elevates the precision and effectiveness of surgical planning but also guarantees that the treatment solution is tailor-made, ultimately enhancing the overall quality of life for our cherished K-9 patients. The CBCT's accelerated potential, as exemplified in the realm of veterinary medicine, underscores its transformative impact across a myriad of applications.



TESTIMONIAL | True Story

The Claris V CBCT is in use by Santa Barbara Zoo staff. Due to its unique size and form, the CBCT resides comfortably in its onsite vet hospital/care clinic. This story reveals the impact of Claris V in a real-world emergency scenario.

Emergency:

The Leopard behaved in rare form, and the onsite keepers swiftly notified the Vet Staff. Due to difficulty breathing, the Vet Staff determined the Leopard was in significant pain. It was still unclear if it would survive. Concerned for its life, the Vet Staff left into action.

Treatment Options:

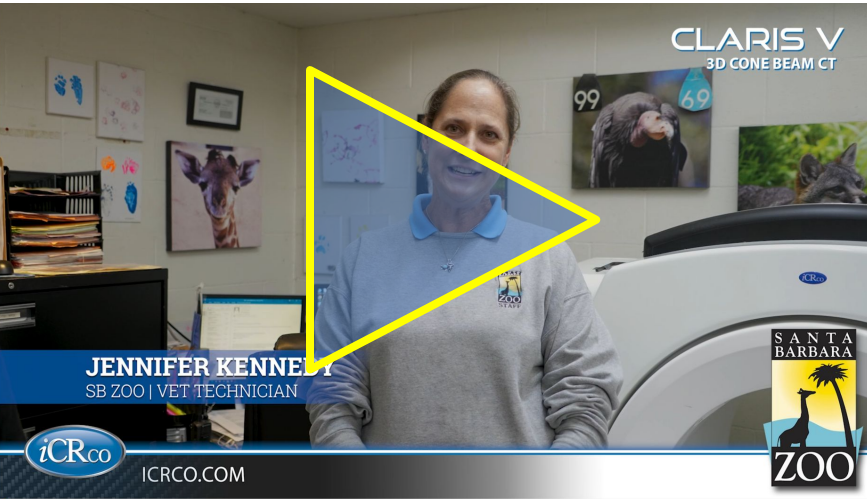
The Leopard's appeared to be dying. It was not an apparent root cause. X-ray was not a sufficient imaging option for this situation; they needed a solution that provided 3D visualization of bone and soft tissue. In every circumstance, the animal would have shipped off-site for CT imaging. The Leopard would have indeed died. Fortunately, they had the Claris V CBCT.

Point of Care:

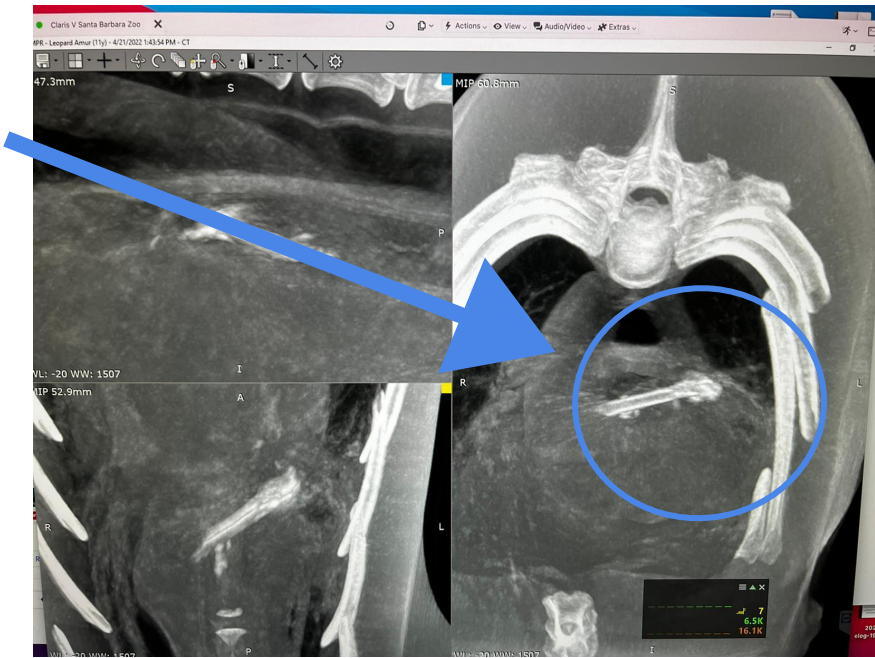
The CBCT revealed an object inside the Leopard (a rabbit bone), which was swallowed and lodged deep inside its airway. This foreign object created significant internal tissue damage and respiratory instability. The team had to act fast to remove the object.

Outcome:

The Santa Barbara Vet initiated an emergency response that allowed them to remove the foreign object and save the Leopard's life. The Claris V not only determined the cause but also guided the operation with pinpoint accuracy, leading to the removal of the foreign object. Without Claris V, the Leopard would not be here today.



[CLICK TO WATCH VIDEO](#)



By way of introduction, we invite you to review the following demo images.

Example VET Studies

1. [Vet Study Dog Sinus](#)
2. [Vet Study Dog Skull](#)
3. [Vet Study Gibbon Skull](#)
4. [Vet Study Leopard Gecko](#)
5. [Vet Study Dog Full Body](#)

More Details on Claris CBCT | <https://www.icrco.com/cbctresources>

The Claris CBCT is an innovative CT technology that prioritizes patient safety by minimizing x-ray exposure while providing high-quality images. It offers user-friendly operation, efficient patient throughput, advanced cardiac imaging, and a range of diagnostic features. The package includes an integrated workstation with powerful software for image acquisition, annotation, and manipulation, enhancing patient care.

At ICRCO, INC., we take pride in our dedicated team of sales professionals positioned in satellite offices across the global landscape. Our eagerness lies in delving deeper to understand your distinctive needs. Feel free to ask any questions or request additional assistance. We're here to support you every step of the way. Looking forward to a productive collaboration ahead.

Please Note:

Ensure that you are using a Windows operating system. The Viewer is not compatible with Mac or Linux. Please disable any Windows Firewall settings to successfully launch the Viewer. It's essential to note that as we do not produce the Invivo 3D Alt-Viewer, initial image viewing might require some adjustments. You need to apply window/level settings to observe our images in their optimal representation. Additionally, please be aware that the 3D model cannot be visualized as a true 3D render, which means it may not be in high resolution.

To view our images effectively, a software demo or screen-sharing session is necessary.





Helping You **Protect The Life** of Your Investment

WARRANTY iCRco - Excerpt from Terms and Conditions:

iCRco warrants that each Product, including iCRco software, will be free from defects in materials and workmanship and will operate in material respects in accordance with applicable specifications and manuals provided by iCRco. iCRco makes no other warranties, except warranty of title and no other warranties are implied.

iCRco neither assumes nor authorizes any person to assume for it, any other obligation or liability in connection with any Product provided by it.

SUPPORT - Post-Warranty Period (Additional option to choose from):

- SUPPORT Contract provides on-site service.
- No stress, no worries, no hidden costs

SUPPORT contract cost per year is 10% of the standard retail price to the end-user and is intended for the post-warranty period.

SUPPORT contract may be concluded for a total period of use up to 5 years from the date of purchase (Warranty+Support = 5 years).

SUPPORT contract per year includes:

- All replacement parts, INCLUDING THE X-RAY TUBE
- All relevant online or on-site services
- All software updates and upgrades
- All travel and travel expenses
- Extension or modification of the SUPPORT contract period - Ask us!





Helping You **Protect The Life**
of Your Investment



10%

SALE PRICE ANNUALLY

AVG. \$1500-\$2000 PER MONTH



Software updates & upgrades

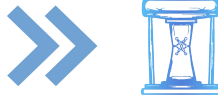


All relevant online or on-site services.



All replacement parts.

INCLUDING THE X-RAY TUBE



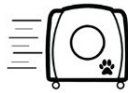
PLEASE NOTE:

iCRco trained technicians will be provided by the local distribution partner. In the event that iCRco technicians must travel to the installation site to perform an on-site service, payment of travel expenses and daily rate is required prior to commencement of travel.



Compact

The **Claris V** is highly compact and can fit into almost any small clinic or mobile practice.



Mobile

With both the gantry and table equipped with wheels, the **Claris V** can be moved around effortlessly.



Lightweight

Weighing in at only 800lbs, The **Claris V** is perfect for Those needing an easily portable imaging device.



Low Power

The **Claris V** only Requires a simple 220V Power source to acquire Premium images.

CLARIS V

The New Standard of **Vet Care**

Built For **Veterinary Practice** **Total Mobile Solution**

Complete with Ultrasound and CT



CT Scan

XC

Image Acquisition



Image Reconstruction

CL PACS

Image Transfer To Clarity PACS



iCRco Expert CT Reading Service



Receive CT Diagnostic Report



140
Pixel Pitch



16 Bit



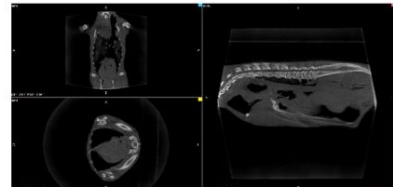
430 x 430mm
Sensor



Learn More | **Claris V**

The **Claris V CBCT** captures 3D studies with its ultra large 17" by 17" detectors while providing the functionality of a traditional x-ray room. With its cesium sensor technology, studies for equine, reptile, mammal, exotic, and countless other veterinarian applications are available through one streamlined workflow.

The **Claris V CBCT** low dose tomosynthesis modality provides low dose studies and high imaging throughput. The **Claris V CBCT** simplifies workflow minimizing cost and shorter treatment time. The result for the **Claris V CBCT** is a streamlined, all-in-one cone beam CT machine that addresses emergency care, surgical planning and general imaging needs.



CELEBRATING
32
YEARS



Image Capture Review



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