iCRco

DR • 3DCT • PACS

CALIFORNIA, USA

3D Mobile Imaging Solution

Complete with Xray | Ultrasound | CT

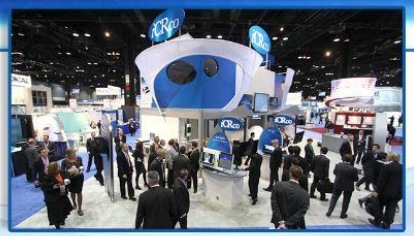
CLARIS V

The Next Dimension of 3D Imaging

ClarisV CT Trailer, powered by Ford F-150 Electric Truck

CELEBRATING

32 – YEARS



ABOUT THE COMPANY

Stephen Neushul began his career as an engineer working with a team that created NASA designs used on the International Space Station.

In 1990 Stephen launched iCRco Inc. an engineering and design manufacturer of X-ray imaging solutions for Medical and Non-Destructive Testing applications. In its 32 year history, iCRco has provided a full range of digital imaging solutions including cassette workflow, direct capture, and 3DCT that integrates seamlessly into its proprietary acquisition, practice management, and image archiving softwares.

Today, iCRco is a globally-recognized imaging company with approximately 2 billion images captured and installations in over 200 countries worldwide.

iCRco

THE POP CULTURE

NATIONAL GEOGRAPHIC

OVERVIEW

- CBCT BACKGROUND
- CLARIS V CHARACTERISTICS
- WORKFLOW
- SOFTWARE / DIAGNOSTICS
- TECHNICAL SPECIFICATIONS
- CONFIGURATION - SPECIAL OPTIONS
- EQUIPMENT OPTIONS
- WARRANTY / SUPPORT
- CONTACT

CONE BEAM COMPUTED RADIOGRAPHY CBCT

Volumetric Computed Tomography, commonly known as “Cone Beam” currently represents the highest level of resolution imaging capable for veterinary medicine.

CBCT Technology was first introduced in 1996 emanating from Dental Diagnostics. The imaging area resides inside the ring tunnel known as the Gantry.

The Claris V CBCT has a very large gantry with optional 71cm and 79cm bore sizes and 5kW or 18 kW X-ray tube options.

HOW THE CBCT WORKS

The Claris V CBCT produces three-dimensional X-ray images.

Helical thin axial slices are generated as cone-shaped X-ray beam in the CBCT rotates around the area to be diagnosed in the volumetric scan. The area under study remains stationary in the X-ray beam, as opposed to the standard tomography image in which the area under study has to move through the beam.

Depending on the CBCT device and the available size of the digital at panel detector, one rotation of the conical X-ray beam is sufficient to completely cover the diagnosed areas.

The performed scan can be viewed on a PC after a short time.

BETTER RESOLUTION, HIGHER DIAGNOSTIC ACCURACY:

Many CT scanners obtain images very 1 to 3 mm whereas the Claris V CBCT slice thickness is 0.1 to 0.4 mm. The CBCT slice thickness is far smaller and more precise providing more detailed imaging of small structures, particularly the anatomy of tiny animals, reptiles and amphibians.

CBCT CHARACTERISTICS

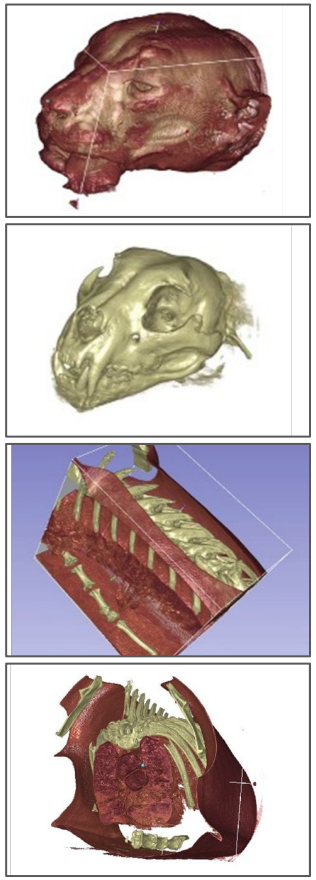
LOWER RADIATION DOSE
This is achieved when the cone-shaped beam passes only once around the patient, thereby exposing the patient to a less dose.

“INSTANT IMAGES”
Through its advanced processing, the Claris V CBCT delivers INSTANT x-ray and volumetric reconstruction.

MOBILE
The Claris V CBCT does not require permanent installation to the floor, it can be wheeled around as needed.

INCREASED VISUALIZATION
Provides detailed mapping of the smallest anatomical structures, particularly small animals, like rodents, which allows for instant surgical planning, general diagnostics and treatment plans at the point of care.

INSTALLATION ADVANTAGES
The regulations for a standard X-ray room apply. No major reconstruction of rooms or heavy air-condition standards need apply. A true “PLUG & PLAY” solution with same day installation and use. The system delivers 3D reconstructions of teeth, skull, bones and soft tissues,



DYNAMIC APPLICATION USE
Claris V CBCT can project amazing complete images in an astonishing 17”x17” (43 cm x 43 cm) field of view. The result of our work is a streamlined, versatile while using a dynamic cesium detector for 3D and standard X-ray capability.

CBCT CHARACTERISTICS

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

TESTIMONIAL | True Story

CLICK TO WATCH VIDEO

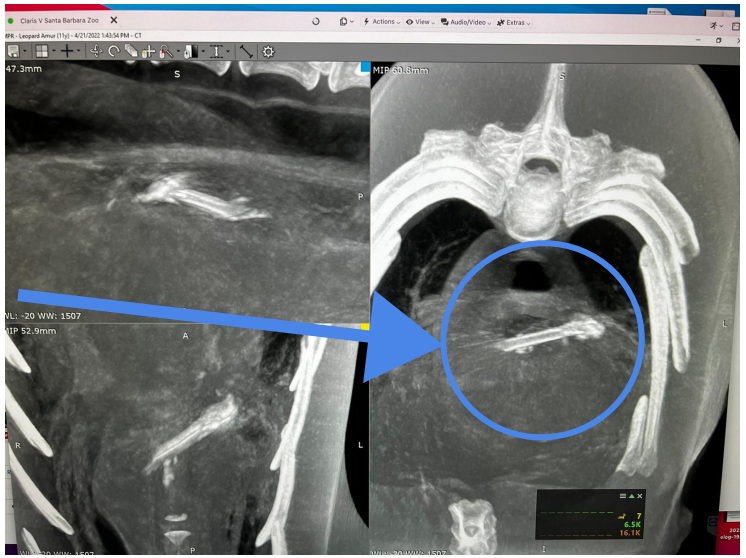
The Claris V CBCT is in use by Santa Barbara Zoo staff. Due to its unique size and form, the CBCT resides comfortably in its onsite vet hospital/care clinic. This story reveals the impact of Claris V in a real-world emergency scenario.

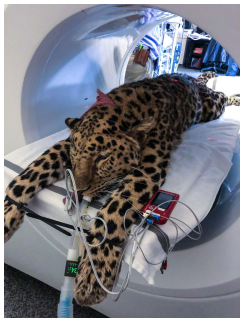
Emergency:
The Leopard behaved in rare form, and the onsite keepers swiftly notified the Vet Staff. Due to difficulty breathing, the Vet Staff determined the Leopard was in significant pain. It was still unclear if it would survive. Concerned for its life, the Vet Staff lept into action.

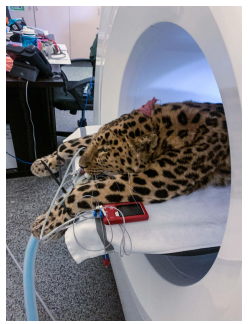
Treatment Options:
The Leopard's appeared to be dying. It was not an apparent root cause.
X-ray was not a sufficient imaging option for this situation; they needed a solution that provided 3D visualization of bone and soft tissue. In every circumstance, the animal would have shipped off-site for CT imaging.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

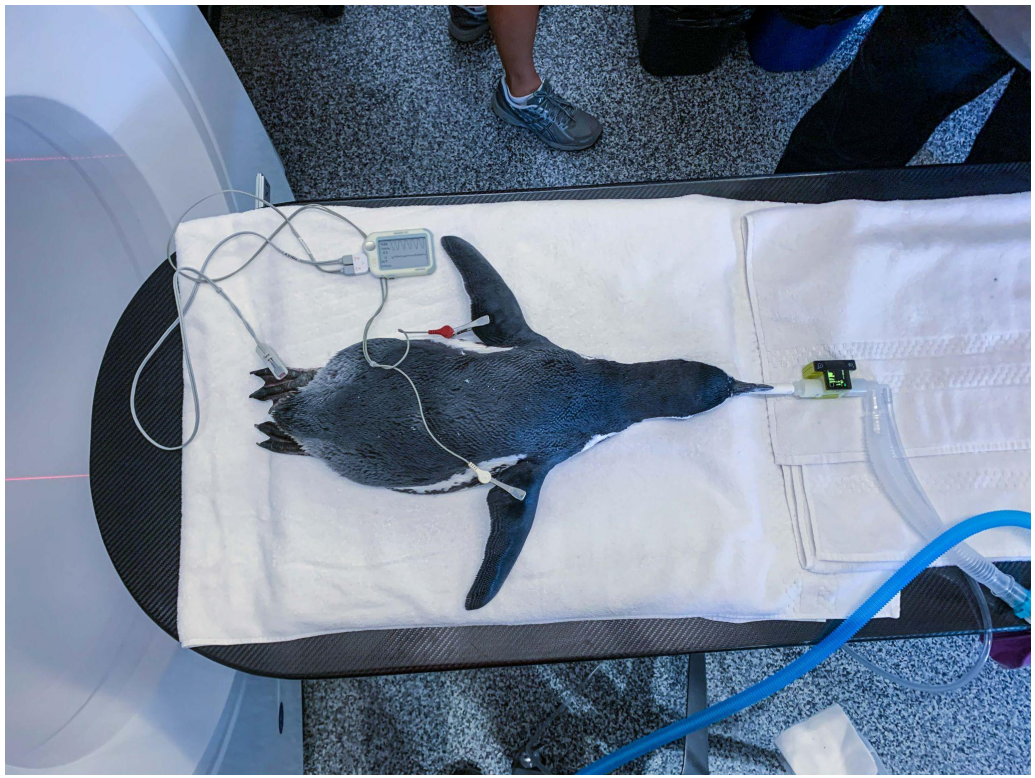
Point of Care:
The CBCT revealed an object inside the Leopard (a rabbit bone), which was swallowed and lodged deep inside its airway. This foreign object created significant internal tissue damage and respiratory instability. The team had to act fast to remove the object.

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.



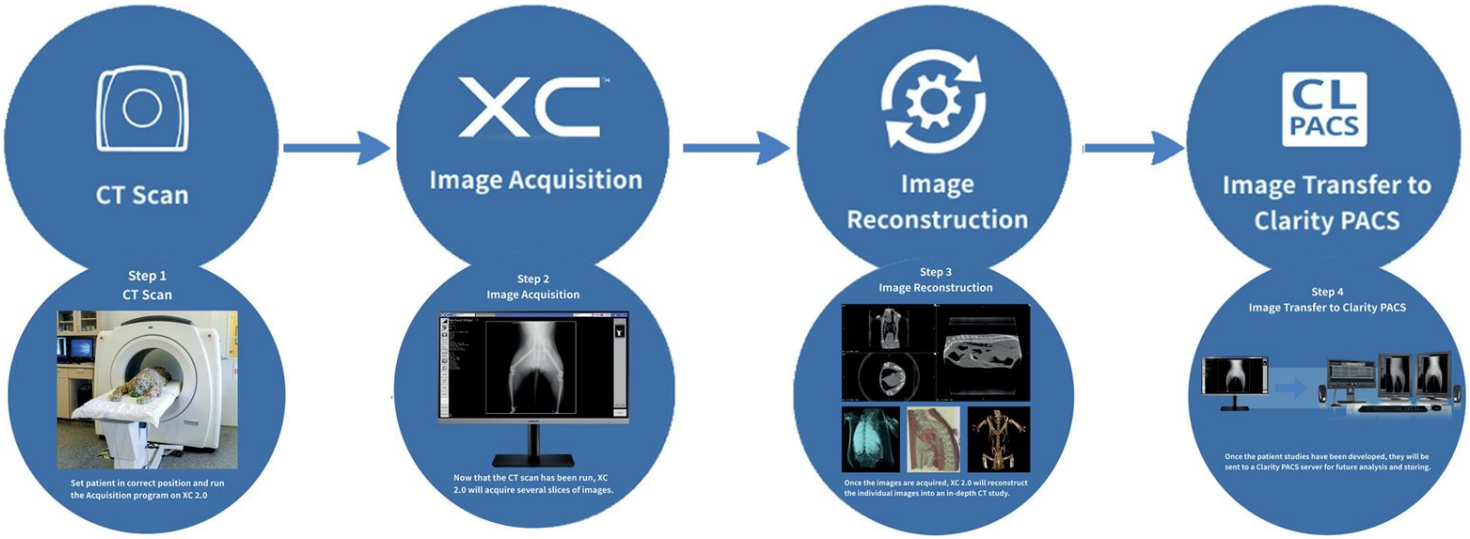






SANTA
BARBARA
ZOO

CBCT WORKFLOW



IMAGE

Claris V | Tomography

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.

CAPTURE

XC ICE-4 | Acquisition

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.

REVIEW

Clarity PACS | Archive

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.

CBCT SOFTWARE OVERVIEW

XC™ 2.0

iCRco takes XC 2.0 acquisition software to new levels with its all new ICE-4 processing, the next level of image clarity enhancement. XC provides simple and intuitive work ow while ICE-4 provides you with consistently high image quality you need to support your diagnosis, while saving you both time and effort.

Effortlessly send images to your PACS system and pull patient demographics from your electronic health records management systems like RIS, HIS and EMR.

Depend on XC and ICE-4 to provide the quality and assurance you need today's fast paced healthcare system.

CLARITY PACS™

PACS MADE CLEAR

Clarity PACS

Next-Level Picture Archiving Communications Platform. Clarity PACS is a scalable and high-performance, intuitive viewer.

Our PACS system is hand-delivered to you through thousands of hours of coding and development.

Clarity PACS continues to be one of the premiere and highly affordable PACS systems available on the market.

Clarity PACS features include report writing, CD/media burning, DICOM print and send, HL7 integration, full HIPAA compliance and the ability to of complete audit logs.

3D RECONSTRUCTION OPTIONS

RadiAnt™

DICOM VIEWER

RadiAnt

PACS DICOM viewer for medical images designed to provide you with a unique experience. RadiAnt DICOM Viewer was designed to use resurfaces as efficiently as possible. It comes equipped with image fusion, image manipulation toolset, multiplanar reconstructions, and supports multiple types of DICOM files.

Anatomage

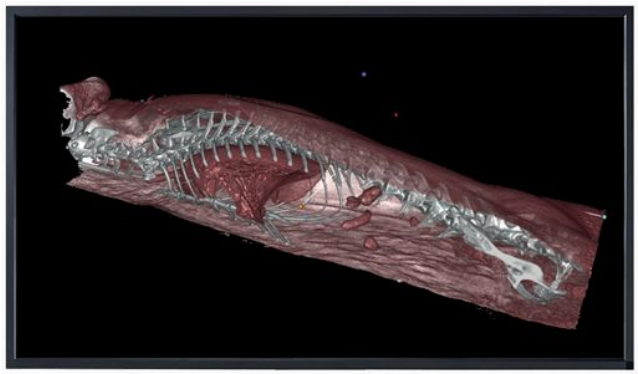
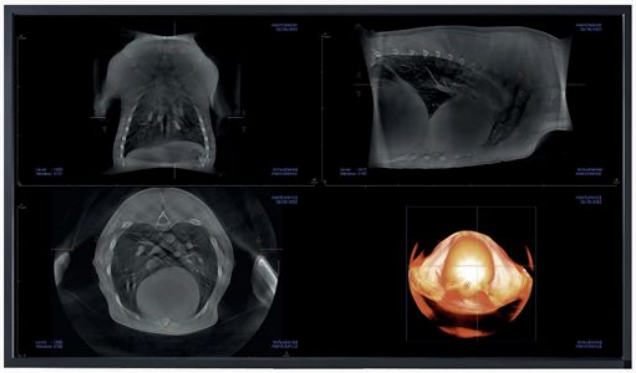
Invivo

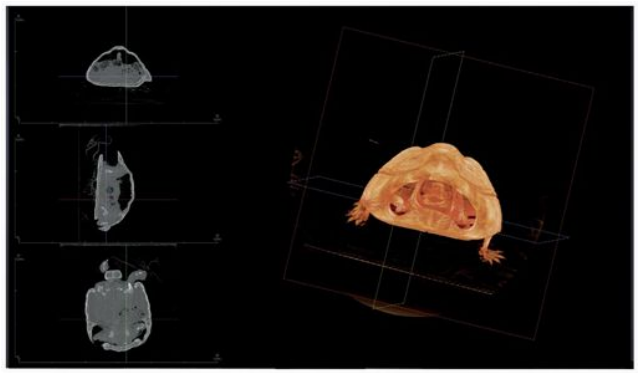
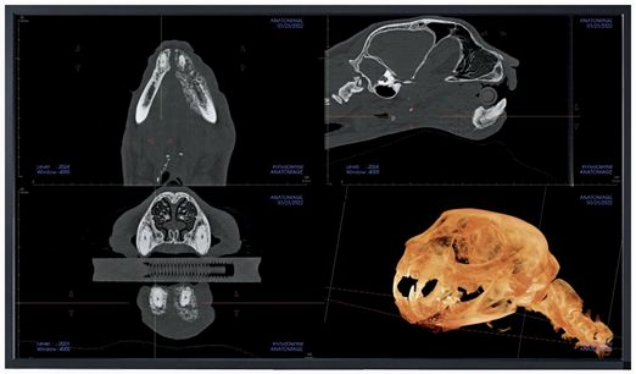
ANATOMAGE

The Invivo platform provides a modern integrated solution for 3D imaging. By combining industry leading clarity, ease of use, and compatibility, Invivo is the ideal solution for dental, orthodontic, and radiological applications.

CBCT SOFTWARE DIAGNOSTICS

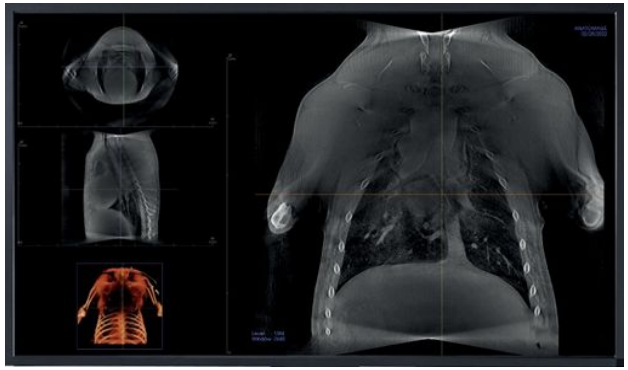
- Nasal Cavities Imaging
- 3D Simulations
- Front Legs Imaging
- Spine Imaging
- Nasopha-Ryngeal Disorders Imaging
- Static Radiology Imaging

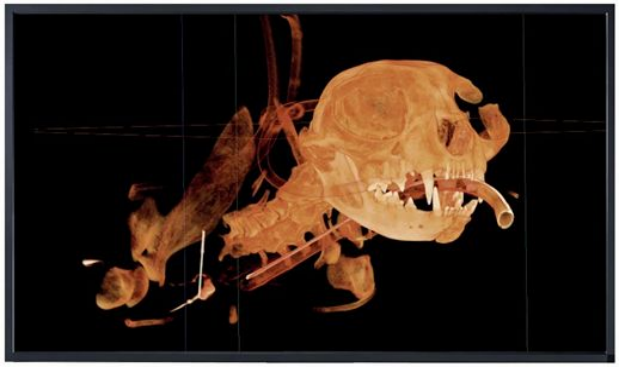
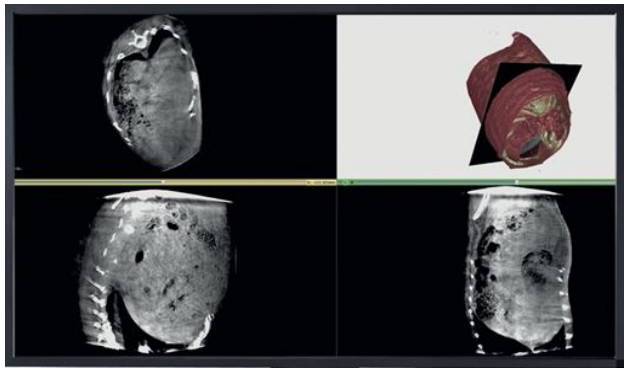



CBCT SOFTWARE DIAGNOSTICS

- Dental Imaging
- 3D Full Skull Imaging
- Rear Legs Imaging
- Lungs Scans Imaging
- Abdominal Imaging
- Internal Organs Imaging

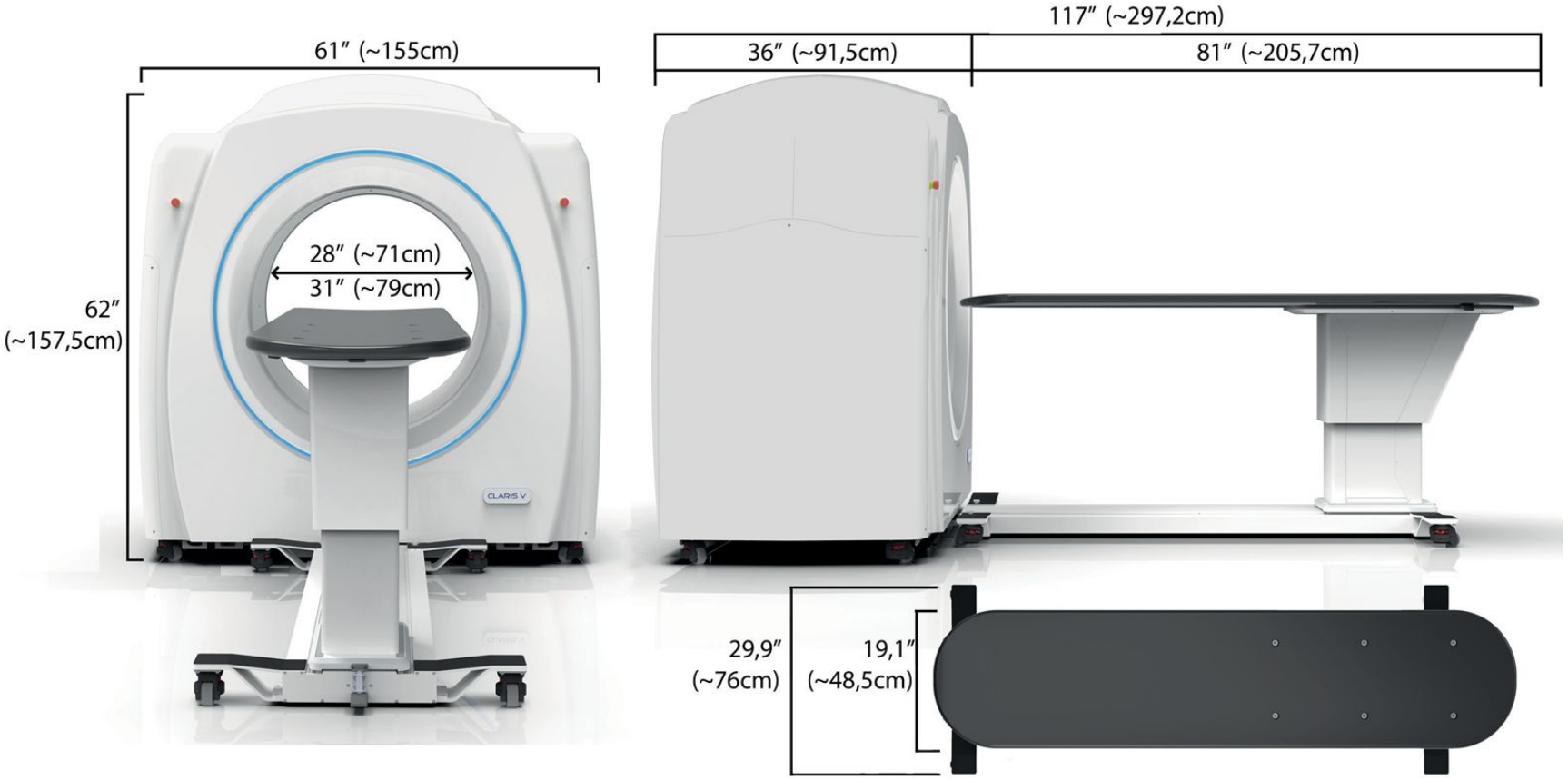


CBCT OPTIONS / CONFIG

DID YOU KNOW?

The CLARIS V CBCT is mobile device consisting of two modules on locked wheels and connected together with a quick bayonet coupling.



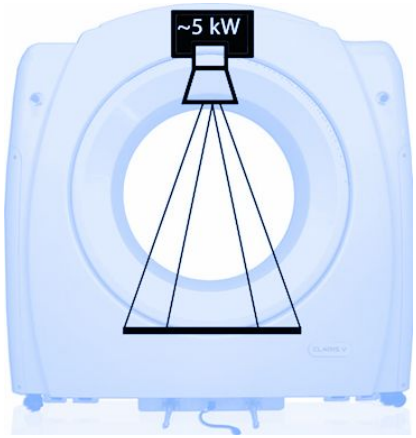
CBCT OPTIONS / CONFIG

Gantry Diameter

Ø 28” (~71cm)
Ø 31” (~79cm)

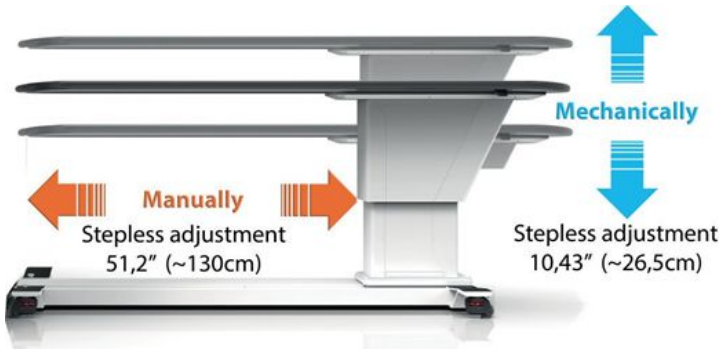
X-Ray Generator

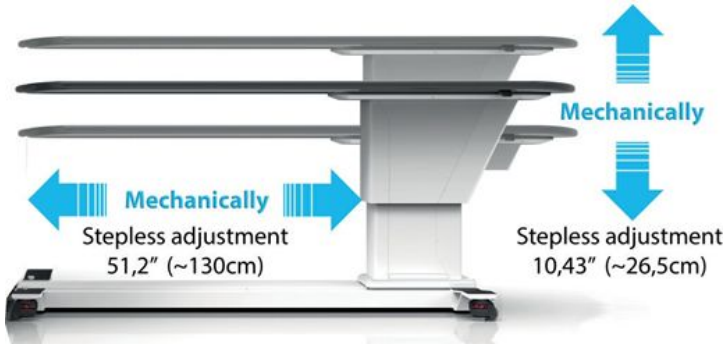
~ 5 kW (e.g. 100 kV, 50 mA)
~18 kW (e.g. 120 kV, 150 mA)



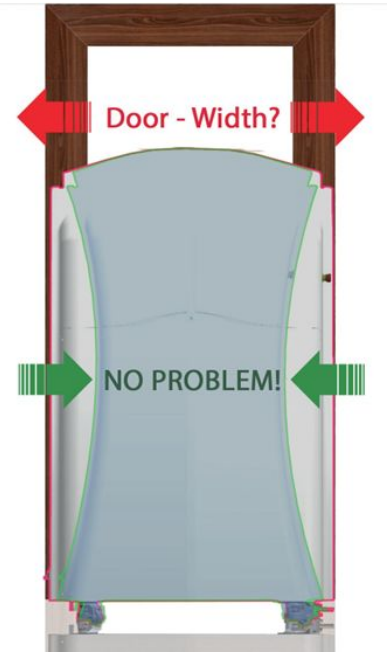
AXIS Motorized Table

- Motorized Z Axis Adjustment
- Robotic X Movement, Mobile
- Attaches to CT Gantry with Locking Interface
- Radio Translucent
- Low Attenuation Carbon Fiber Table Top
- Manual or Robotic Movement
- Adjustable Height





CBCT OPTIONS / CONFIG



Claris V CBCT available in various modular options:

STANDARD OPTION
Assembled CT and Assembled Table which only requires connecting both modules together.
USER OPTION
Claris V CBCT is delivered in configured smaller modules and assembled by our engineers directly on site. The delivery of Claris V CBCT takes place after individual arrangements with the user.

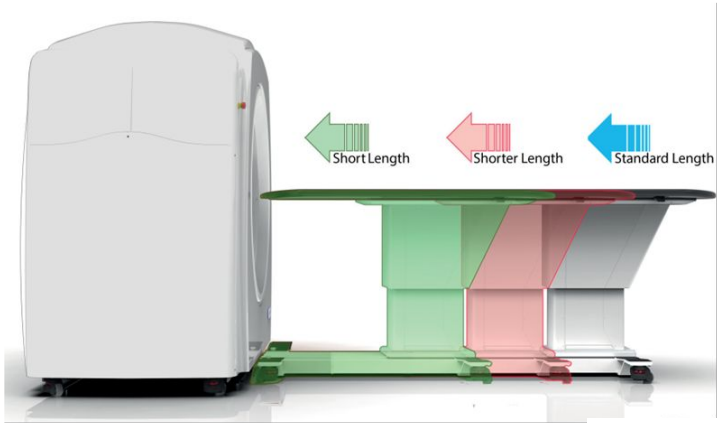
THE WIDTH OF THE DOOR OPENING IS NOT A PROBLEM!
USER OPTION - must be agreed prior to purchase and delivery.

AXIS motorized table available in various length options:

AXIS TABLE
Regardless of the choice of mechanical or manual control of the table displacement, can be adjusted in length to the individual needs of the user on request. The table can be shortened to the required length, which enables Claris V CBCT to be used in rooms with different usable surfaces.

AXIS shorter table option - must be agreed prior to purchase and delivery.

The AXIS table can be shortened to any length on request!



CBCT OPTIONS / CONFIG

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

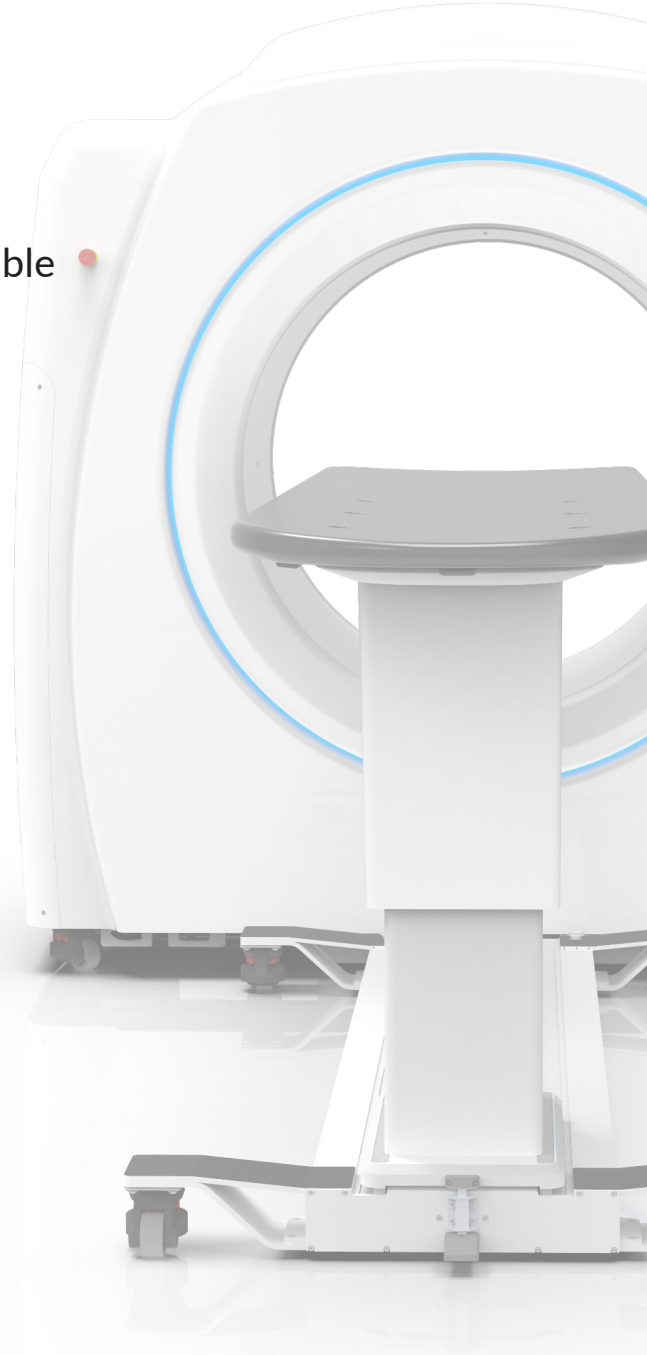
XC™ Acquisition software

RadiAnt DICOM VIEWER

Anatomage invivo

Review Software

3D reconstruction software
(various options)



CBCT OPTIONS / CONFIG

CLARiTY PACS™
PACS MADE CLEAR

Clarity PACS™

NAS cloud backup

USB 3.0 32GB MEMORY STICKS

Recording studies &
3D reconstructions for patients.

X-ray Protective Aprons

Thyroid protection & Fingerless X-ray protective gloves

iCRCare

- DELIVERY
- INSTALLATION
- CONFIGURATION
- USER TRAINING
- WARRANTY

CLARIS CBCT

SERVICE & WARRANTY AGREEMENT OVERVIEW

THE WARRANTY PERIOD INCLUDES

- Warranty period = 1 year
- The warranty period includes:
- All replacement parts.
- All relevant online or on-site services
- Software updates and upgrades

POST WARRANTY CONTRACT INCLUDES: SERVICE | SPARE PARTS

- All replacement parts.
- All relevant online or on-site services
- Software updates and upgrades
- The annual service contract not included:
- Paid extra - - travel expenses and time on site are paid for activities

PRICES PER/YEAR *"POST WARRANTY CONTRACT"*:

- **10% of CBCT SALE PRICE**

  3rd, 4th, 5th, 6th Year Support
- **12.5% of CBCT SALE PRICE**

  7th, 8th, 9th, 10th Year Support

IMPORTANT

The SERVICE AND WARRANTY contract is a voluntary option and does not have to be concluded. However, if you want to use this option, it must be completed before the period expires.

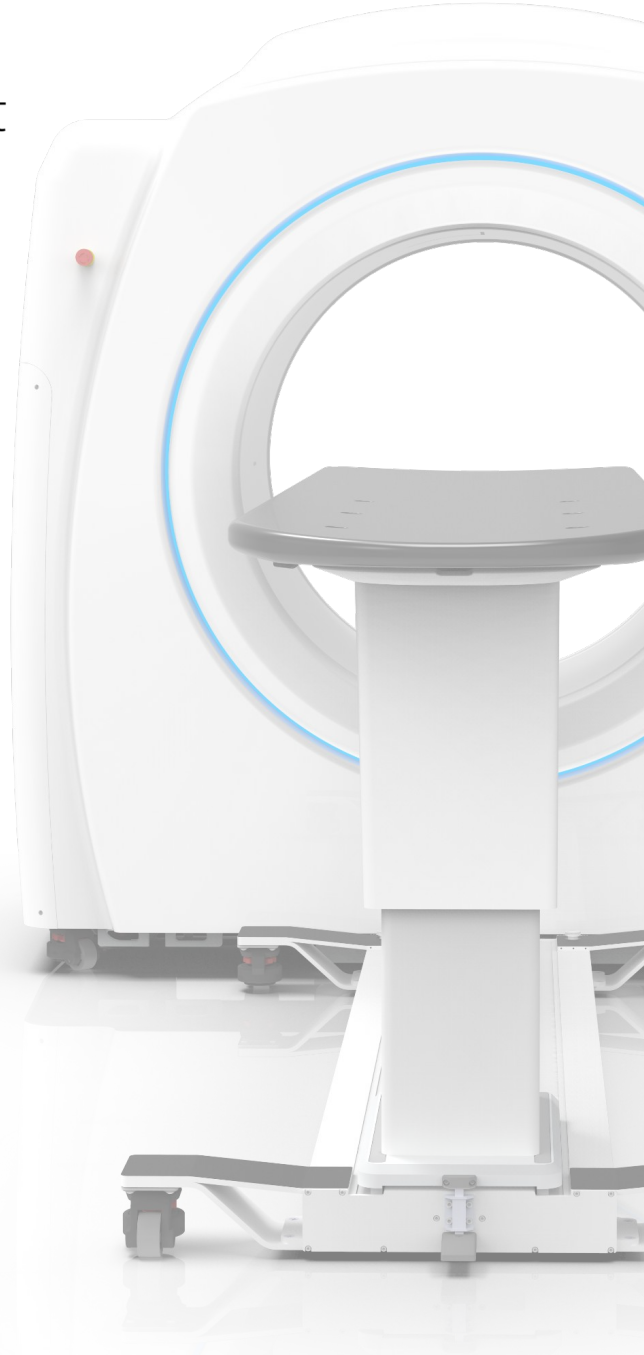
OPTIONS - LUMINARY - SPECIAL*

SPECIAL OPTION: TERMS OF PURCHASE CLARIS CBCT

- BILATERAL COOPERATION
- Direct communication with the iCRco engineering team
- Co-Marketing opportunities with the support of iCRco and the user
- Contribute to the CBCT Animal Reference image library with other reference users.
- Collaboration in improving Claris CBCT devices to achieve the best CBCT results.

iCRCare

iCRCare | 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
- Extension or modification of the SUPPORT contract period - Ask us!

CLARIS V

The New Standard of Vet Care

Built For Veterinary Practice
Complete Mobile Solution

Complete with Ultrasound and CT

140 Pixel Pitch | **16 Bit** | **430 x 430mm Sensor**

CT Scan → XC Image Acquisition → Image Reconstruction → CL PACS Image Transfer To Clarity PACS → iCRco Expert CT Reading Service → Receive CT Diagnostic Report

Manufactured in **California USA**

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 captures high detailed information as well as studies expected from a traditional x-ray room. The Claris V CBCT low dose tomosynthesis modality provides low dose studies and high patient 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.

iCRco | Image Capture Review

Low Dose Imaging Solution | Cesium Sensor | XC Acquisition & Reconstruction

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.

SCAN TIME
15 seconds Standard Resolution
30 seconds High Resolution

CLARIS V Specifications*

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	30 Seconds 2X2 binning, 60 seconds 1X1 binning	
Image Detector	17x17" amorphous SiTFT w/ CsI(Tl) 140 µm pixel pitch	
Possible Single Image Resolution	3072x3072 1536x1536 CM 1024x1024	Volume of Interest Selectable up to 25X25X25
Grey Scale	16 bit (65,536 gray levels)	
Voxel Size	≥ 85 µm	

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

Processing and display time dependent on processor speed, RAM disk access time, and video card.

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