

“Next-generation Cone Beam CT(CBCT) with innovative technology and practicality”

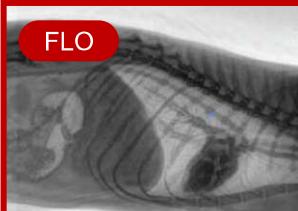
**Reasonable Costs**

**Low-Dose, High-Definition**

**Enhanced Usability**



- Scan Time: 6 ~ 24sec
- Reconstruction Time (25sec)
- High Image Quality
- MPR Viewer



- Large FoV: 43x43cm
- Frame Rate
  - 2x2 binning (half): 30
  - No binning (full): 10
- Real-Time Image Processing
- DSA (Digital Subtraction Angiography)
- ABC (Auto Brightness Control)



- Simple Workflow
- Image Preview
- Image Processing Time (< 0.8sec)
- Advanced Image Processing
- Powerful Measurement Tools

#### Reasonable Costs for Install, Operate, Maintain



##### 3-in-1 Hybrid

Cost and space efficient with 3 functions (RAD, FLO, and CT) in one device



##### High profitability

High cost per 1 CBCT image



##### 220V Plug-in operation

No need for expensive electrical wiring



##### Compact size

Convenient storage and moving



##### Convenient maintenance

- Stable output and long life of Rotating tube  
- Flexible AS & Update of self-developed SW

# MDCT VS DeteCT(CBCT)



**MDCT**  
Conventional CT

Fan Beam	Beam
Higher	Radiation dose
Moderate(Longer scan and processing times)	Patient Throughput
Higher	Overall cost per scan
Higher	Maintenance cost
Larger area	Space Requirements
3-phase power supply (380V)	Power supply

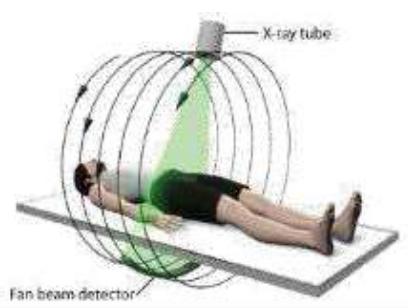


**DeteCT**  
Hybrid CBCT

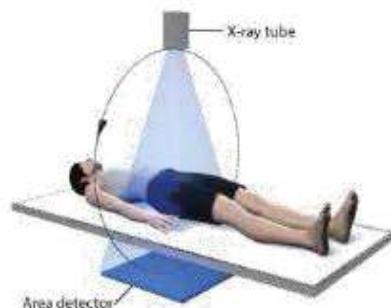
Cone Beam
Lower
High(Efficient workflow through quick scan times)
Lower
Lower
Smaller area( $5 \times 3 \text{ m}^2$ )
Wall power (110~220V)

## Advantages of DeteCT imaging technique

1. MDCT acquires images by performing multiple rotations of the scanner using a helical scanning method.
2. CBCT is superior to MDCT in **musculoskeletal imaging** due to its **superior resolution and spatial resolution**.
3. CBCT obtains diagnostic images **with lower doses** (\*ALARA) compared to MDCT.



Fan Beam(MDCT)

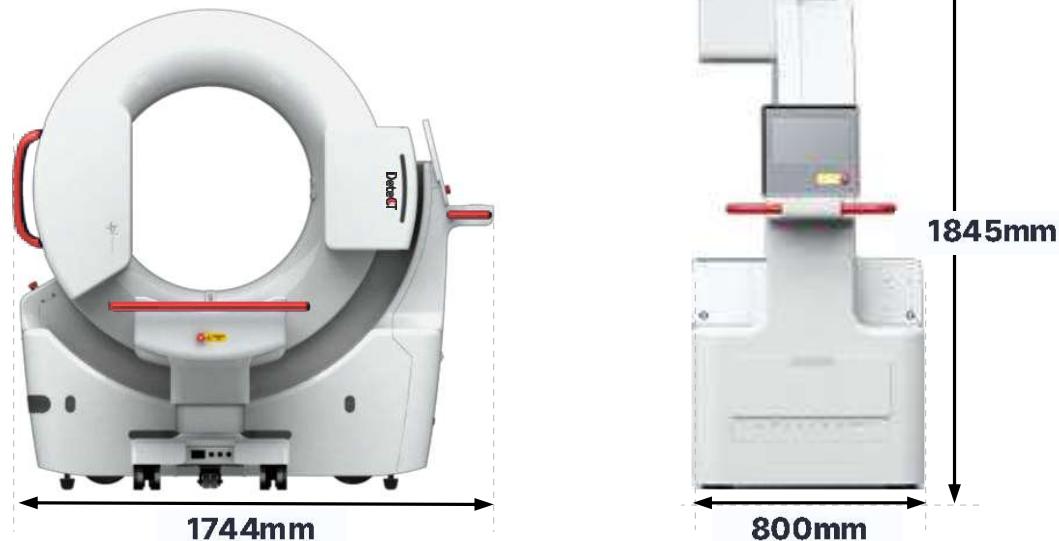


Cone Beam(CBCT)

\*ALARA: An abbreviation for 'As Low As Reasonably Achievable', the principle of optimizing radiation protection

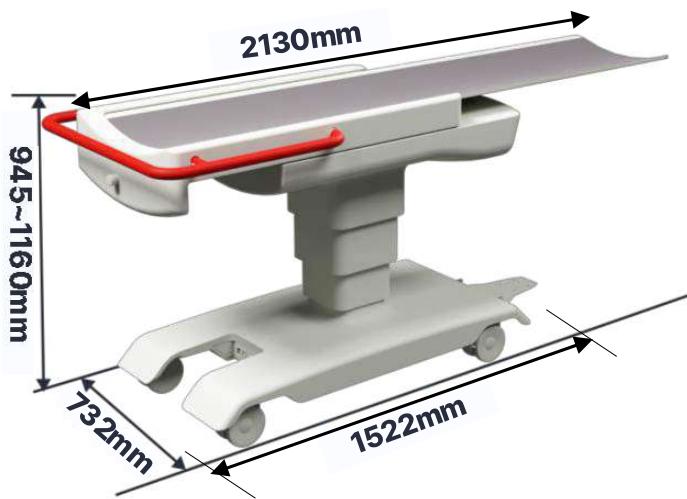
# Specifications & Dimensions

## Scanner



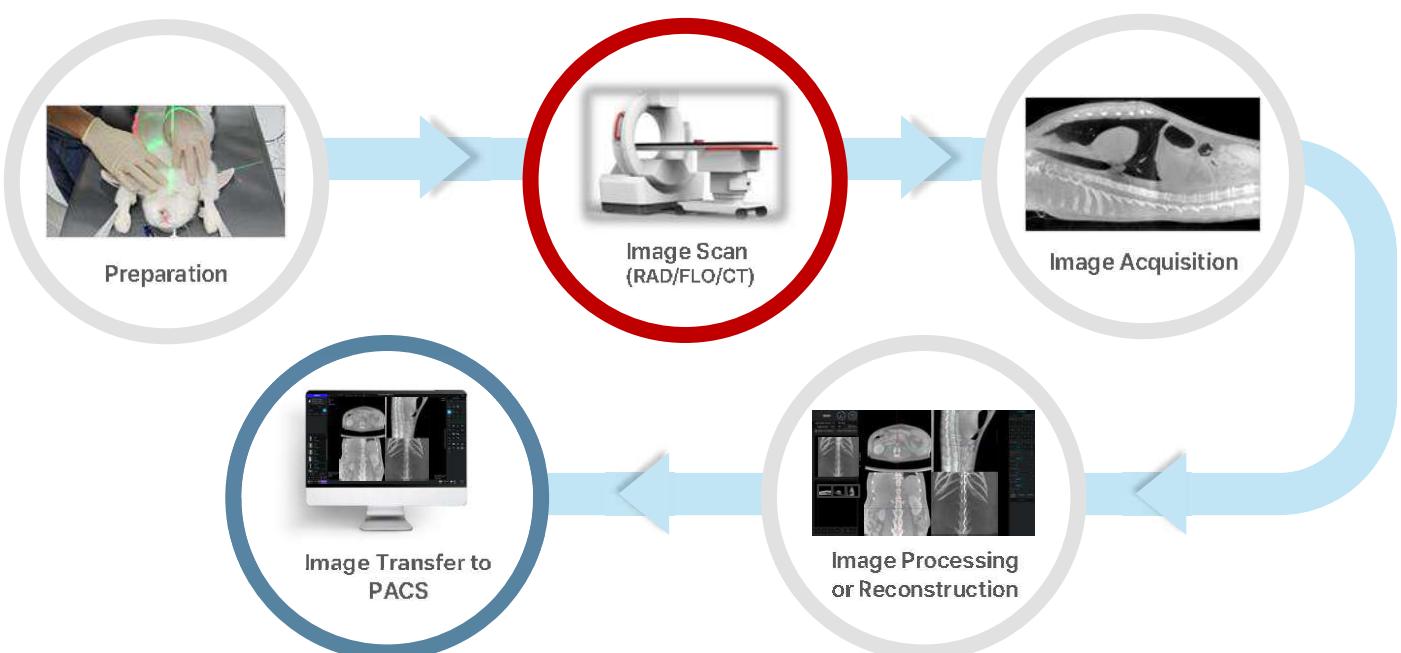
<b>Size (WxLxH)</b>	1,744 x 800 x 1,845mm (Scan mode)
<b>Bore size</b>	750mm(based on patient table: 650mm)
<b>Net Weight</b>	600kg
<b>Power supply</b>	220~240VAC / 15A / 4.8kVA
<b>Generator</b>	10kW (CT: 4.8kW / FLO: 3.5kW)   40~120kV (FLO: 115kV)   200mA (CT: 40~100mA / FLO: 20mA)
<b>X-ray Tube</b>	Rotating anode   Focal spot size: 0.3/0.6mm
<b>Detector</b>	IGZO TFT   Size: 430 x 430mm
<b>Monoblock</b>	Heat capacity: 105kJ
<b>Field Of View</b>	280 x 280 mm
<b>Scan &amp; Recon. Time</b>	scan<19s   recon.<46s @560 slices
<b>Image resolution</b>	Pixel size: 1x1: 3,072x3,072, 2x2: 1,536x1,536 Pixel pitch: 140µm

## Bed



Size (WxLxH)	2,130 x 732 x 900mm (Scan mode)
Net Weight	200kg
Patient max. weight	100kg
Travel range	Horizontal: 650mm, Vertical: 215mm

## Simple & Easy operation



# ExamVue CT Suite



'ExamVue CT Suite' is developed by JPI Healthcare and focused on user convenience and visibility.

Flexible AS & Update is available and hospital logos can be inserted upon request.

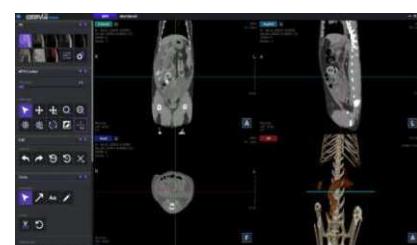
## Image Acquisition in 3 Modes (RAD/FLO/CT)



Radiography

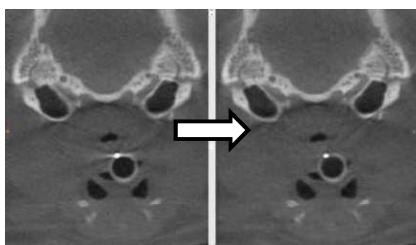


Fluoroscopy



Computed Tomography

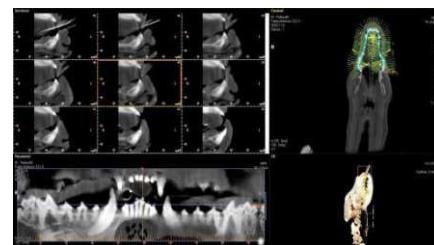
## Image Processing & Image Preview



MAR (Metal Artifact Reduction)



3D Viewer



Dental application(Panorama)