POINT-OF-CARE EXTREMITY CT IMAGING IS NOW IN REACH









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Captures the entire volume in a single 360-degree orbit. kVp choices are 100 or 120, based on target anatomy and/ or patient size; and mA is fixed at 5. The resulting datasets are high contrast and provide ultra-fine trabecular detail.





3D renderings and custom MPR slabs were created in CubeVue, CurveBeam's custom visualization software.

The CurveBeam **InReach** is an extremity Cone Beam CT scanner that images the hand, wrist, forearm, elbow and the lower extremities. High Resolution 3D scans of the extremities permit specialists to assess osseous structures with precision & clarity.

FITS ANYWHERE 23" x 36" footprint Self-Shielded Standard 115V (220 VAC International) Outlet

EASY TO OPERATE Designed for easy entry & positioning Straightforward kVp choices & fixed mA

QUICK SCAN TIMES Less than **25** seconds per scan

0.2 MM SLICES + X-RAY VIEWS 3D Reconstructions, Multi-Planar Slices, X-Ray views

ULTRA LOW DOSE

DICOM/PACS COMPATIBLE

MINIMAL MAINTENANCE

STANDARD BILLLING CPT 73200 CT Upper Extremity CPT 73700 CT Lower Extremity



Total Access to Images

- Workstation & high-contrast monitor is included with the system to give specialists instant access to highest resolution images.
- CubeVue custom viewing software comes pre-loaded on workstation and enables:
 - Instant reformatting and re-orientation of MPR Slices and 3D renderings
 - Segmentation of individual bones
 - Creation of custom MPR slabs
 - Distance and angle measurement tools
 - Automatic presentation of Insta-X (Digitally Reconstructed Radiographs) with every scan
 - DRR's are synthesized X-ray views, mathematically reconstructed from the original CT volume. DRRs represent the actual anatomical sizes and angles with no magnification or distortion, and all standard and/or custom views are created from the original scan, without the need to re-position the patient.



CubeVue 3D Rendering + MPR Tab



CubeVue Insta-X Digitally Reconstructed Radiographs Tab

Technical Specifications			
3D Imaging Volume	17.2cm (6.8in) (h) x 16cm (6.3in) (d)		
Resolution	0.2mm voxels		
Scan Time	23.8 seconds		
Max Exposure Time	5 seconds		
Tube Voltage	100 - 120 kVp		
Tube Current	5 mA		
Image Detector	Amorphous silicon flat panel		
Gray Scale	16 bit		
Unit Dimensions	60in (h) x 36in (w) x 23in (d) 150cm (h) x 91cm (w) x 58cm (d)		
Unit Weight	300 lbs; 136 kg]	
Power Requirements	115/230 VAC 50/60 Hz		



FDA 510(k) CE Marking Health Canada

cessories

nd/wrist platform ow platform agnetic lead shields tient chair quisition station wall mount

Technique	Micro Sieverts	Comparable Natural Background Radiation
Daily Background Exposure	8(1)	1 day
InReach Cone Beam CT hand/wrist	1.4 ⁽¹⁾	4.2 hours
InReach Cone Beam CT foot/ankle	3.7(1)	11.1 hours
InReach Cone Beam CT knee	2.1(1)	6.3 hours
Bone Densitometry (DEXA)	1 ⁽²⁾	3 hours
Extremity X-Ray Radiography	1 ⁽²⁾	3 hours
Unilateral Foot & Ankle Helical CT (Siements CARE Dose)	70 ⁽³⁾ 25 ⁽⁴⁾	8.75 days 3.13 days

(1) John B. Ludlow, Brandon K Johnson, Marija Ivanovic, Estimation of effective doses from MDCT and CBCT imaging of extremities, Journal of Radiological Protection, 2018

(2) RSNA; Radiologyinfo.org/en/info.cfm?pg=safety-xray
(3) Biswas Debdut et al, Radiation Exposure from Musculoskeletal Computerized Tomographic Scans,

Journal of Bone & Joint Surgery, Vol. 91-A, No. 8, August, 2009

(4) John B. Ludlow, Marija Ivanovic, Weightbearing CBCT, MDCT, and 2D Imaging Dosimetry of the Foot & Ankle, International Journal of Diagnostic Imaging, 2014, Vol. I, No. 2





Wrist fracture series (clockwise from top left): 3D rendering PA view, MPR axial slice, MPR axial slice, 3D rendering AP view, MPR coronal slab (stack of slices)







About CurveBeam

CurveBeam designs and manufactures Cone Beam CT imaging equipment for the orthopedic and podiatric specialties. CurveBeam was founded in 2009 and is privately owned and operated.

CurveBeam's corporate office is located in Hatfield, Pennsylvania, USA. All CurveBeam systems are designed and manufactured in the USA. CurveBeam's Europe office is located in London, United Kingdom.

The core team behind CurveBeam developed and pioneered the first commercially viable Cone Beam CT imaging systems for the dental/maxillofacial specialties starting in 2003.

In 2012, CurveBeam introduced the pedCAT, a bilateral weight bearing CT imaging system for the foot & ankle.

In 2018, CurveBeam introduced the LineUP, a Weight Bearing CT imaging system optimized for bilateral feet and knees, plus hand and elbow imaging.



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Point-of-care CT Imaging