

# HiRise™ CurveBeam

The HiRise™ is CE Marking approved and FDA 510(k) cleared



Small device foot print;  
58"x73"; Self-shielded;  
Runs off standard 115V/230V  
outlet; 33-42 second scans\*.

Image acquisition is 70%  
faster than X-Ray series  
- allows you to see more  
patients per day<sup>2</sup>.

35% improved fracture  
detection and 2-fold improved  
identification of complex  
fracture over X-Ray<sup>1</sup>.

Largest field-of-view in its  
class - 20cm x 40cm - FOV  
can be narrowed to reduce  
exposure..

**Assess total leg alignment with 0.3mm slices.**

**Review joint space in three dimensions.**

**Bilateral weight bearing foot scans allow for more accurate diagnosis.**



**Assess alignment of the entire lower extremities in three dimensions.**

(1) Lodlow.J Hand-wrist, Knee, and Foot-ankel Dosimetry and image quality measurements of a Novel Extremity Imaging Unit Providing CBCT and 2D Imaging Options. Draft version 1/18/2018.  
(2) John B. Ludlow, Marija Ivanovic, Weight bearing CBCT, MDCT, and 2D Imaging Dosimetry of the Foot & Ankel, International Journal of Diagnostics imaging, 2014, Vol 1, No. 2.

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The HiRise's<sup>™</sup> flexible gantry can be easily positioned to scan the upper extremities.



*Rotate the gantry to vertical orientation to facilitate scans of the hand, wrist and elbow as well as non-weight bearing feet, ankles and knees.*

*Lower the gantry for patients who are restricted to a wheelchair or unable to stand.*



The HiRise's<sup>™</sup> chair accommodates patients up to 450 pounds (205 kg), and has been thoughtfully designed for easy maneuvering and compact storage.



**“Weight bearing CT of the joints can provide important new clinical information in musculoskeletal radiology.”**

- Tuomeninen et al, American Journal of Roentgenology



Learn more about CurveBeam's portfolio of weight bearing CT imaging systems at [www.curvebeam.com](http://www.curvebeam.com)



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# Specifications

All specifications are subject to change.

Description	Specification
Anatomical coverage	Upper extremities, lower extremities, hip & pelvis
Shielding	System covers lined with .38mm lead; included attachments reduce patient dose
Software	CubeVue Visualization Software; PACS/DICOM Compliant
Reconstruction features	Metal artefact reduction, Motion correction, Composition-based scatter correction
CBCT scan times*	33 - 42 sec
CBCT procedure time (Defined as patient enters to patient exits)	Foot/Feet (Gantry at bottom position): 61 sec. Knees (Gantry at an elevated position): 88 sec. Hips (Gantry at an elevated position): 183 sec. Upper Extremity (Gantry in Tilted Position): 61 sec. NWB. Feet, Knees (Gantry in tilted position): 61 sec.
Max Height - Top of FOV/ Center of FOV	46.85" (119cm)/ 42.91" (109cm)
Radiation exposure time (based on typical pulse width)	5.76 - 13.5 sec
Reconstruction time	3-5 minutes per volume
Image detector	Amorphous Silicon flat panel
Image gray scale	16 bit
CBCT imaging volume	<b>Large FOV:</b> 7.8" (20cm) height x 15.7" (40cm) diameter <b>Medium FOV:</b> 7.8" (20cm) height x 9.8" (25cm) diameter
Resolution	LFOV: 0.3mm, MFOV: 0.25mm
Dataset file size	300MB - 1200MB
System size: height x depth x width	57"x58"x73" (145cm x 147cm x 185cm)
Weight	Scanner: 850lb (385kg), Patient Chair: 250lb (113kg)
Power requirements	920VA (Standard 120V/230V outlet)
Tube voltage	100 kVp, 120 kVp, 130 kVp
Tube current	5.5 mA, 6.5 mA

\*Scan time is defined as the duration in which the exposure button is suppressed and the patient must remain still.

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## System Dimensions

