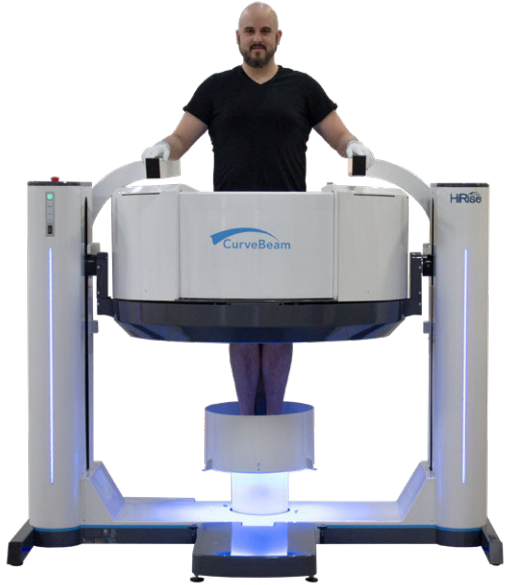
CurveBeam

HiRise™

The Next Level in Weight Bearing CT Imaging

CE Marked & FDA 510(k) Cleared



pedCAT LineUP

Weight bearing CT Imaging for the foot & ankle (left) and for foot, ankle & knee (right).

About CurveBeam

Curvebeam, a privately owned research, design, and manufacturing firm, is the leader in weight bearing CT (WBCT) imaging for orthopedics, with hundreds of global installations and 5 FDA 510(k) cleared devices.

CurveBeam's systems offer the largest patient platform and largest field-of-view today.

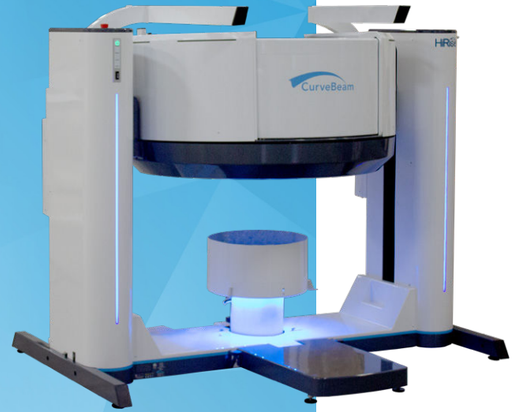
"Measurements of joint alignment and angles on cone beam WBCT scans have been shown to be more accurate than on conventional radiographs, and non-weight bearing CT scans, and this may have clinical implications for surgeons planning deformity correction before surgery."
- Conti et al, J Am Acad Orthop Surg

The Next Level

The HiRise™ has the unique capability of scanning the hip and pelvis, as well as the knee, foot & ankle in weight bearing position, allowing musculoskeletal radiologists and orthopedic specialists to **assess alignment of the total lower extremity in three dimensions**.

The HiRise™ gantry tilts 90 degrees for comfortable upper extremity and supine scanning.

- Faster throughput than DR.
- Better Case Assessment & Surgical Acceptance.
- Standard CPT Codes Apply.



A Point-of-Care Solution from Start to End

Compact

73”x 57” Footprint

Easy to Install

Plugs into a standard 120V/240V outlet

Self-Shielded

Minimal additional shielding needed

Easy entrance/exit design and a 19.6”/50cm diameter bore create a comfortable patient experience.

CT CPT Codes: *73700 & 72700*

Less than 35 seconds a scan, per scan region, with less than 14 seconds of X-Ray exposure.

Included visualization software displays dynamic 3D renderings, multi-planar slices and digitally reconstructed radiographs. Post-processing takes about 4 minutes per scan region.

3D CPT Code*: 76376*

Wide beam X-Ray and flat panel detector

Cone Beam CT

A “3D X-Ray” optimized for high-contrast trabecular bone detail in the extremities.

- Fixed, orthopedic-specific settings
- Isotropic voxels for high spatial resolution in all three planes
- Any X-Ray Technologist is permitted to operate in the USA

Conventional CT

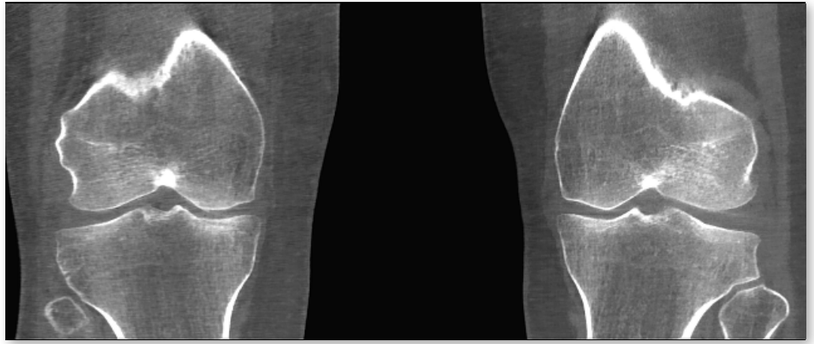
Diverse full body imaging applications, including sophisticated soft-tissue structures.

- Multiple protocols for diverse specialties
- Lower spatial resolution; optimized for motion imaging, which is inapplicable to orthopedics
- A CT Technologist is required to operate in the USA

Narrow X-Ray beam and detector array

HIP & PELVIS

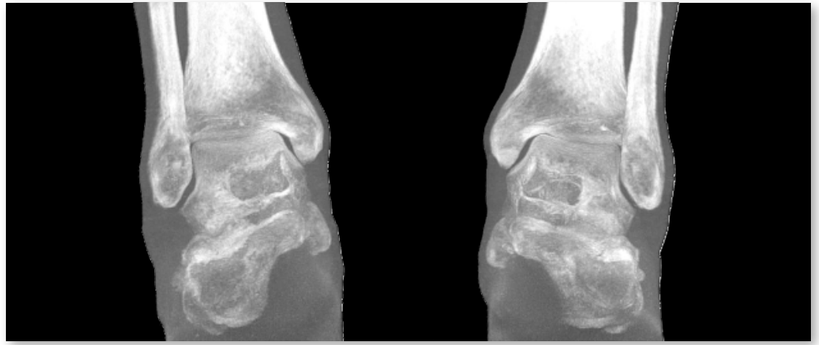
Evaluate hip conditions three-dimensionally at the point-of-care.



Assess arthritic changes of each compartment of the knee with greater detail & accuracy.

KNEES

FOOT & ANKLE



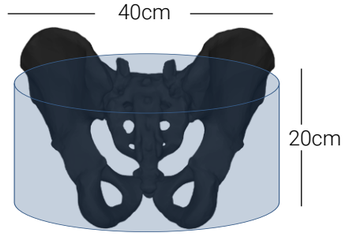
Assess alignment, joint space, and biomechanical morphology in three dimensions.

Discover previously unavailable precise & definitive diagnostic details in office for immediate answers.

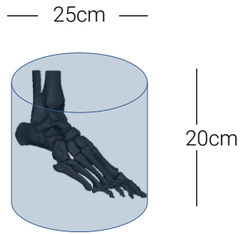
UPPER EXTREMITY

Capture Bilateral Views

The AccuMeasure positioning tool sets the scan region using external landmarks. Eliminate the need for a scout and reduce overall radiation exposure.



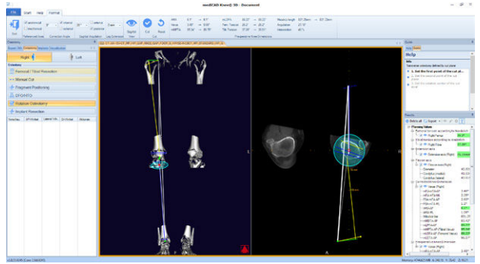
Large Field of View **.3mm**



High Resolution Field of View **.25mm**

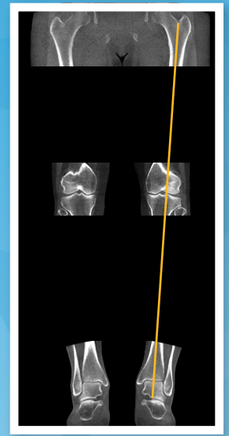
Create Surgical Plans

Create a 3D model from a lower extremity scan to assess lower limb alignment, including the long leg axis and torsional deformities, as well as patellofemoral malalignments, with accuracy. Plan joint replacement (TKA/UKA) or corrective single or double level osteotomies (HTO/DFO) and derotation osteotomies in 3D.



mediCAD®

Datasets are DICOM/PACS compatible.



Volume is stacked to represent real anatomical distances

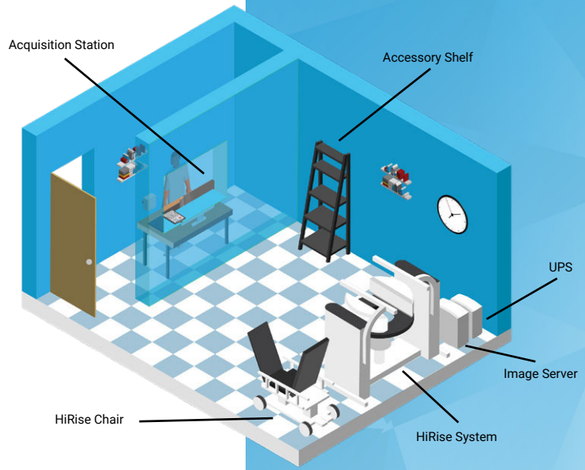
Serve More Patients

Scan knees and feet in supine position with included adjustable patient chair, which supports patients up to 450 lbs (204 kg). The chair is designed to accommodate immobile patients for easy transition on to the seat.

Folds away for compact storage when not in use.

Technical Specs

CBCT Imaging Volume	**Large FOV:** 7.8" (20cm) h x 15.7" (40cm) dia **Medium FOV:** 7.8" (20cm) h x 9.8" (25cm) dia
Max. Height of Anatomy from Floor	46.85" (119cm)
Resolution	0.25(MFOV) - 0.3mm(LFOV) voxels
Dataset File Size	300MB - 1200MB
Scan Times	26 - 34 seconds (approx.)
Radiation Exposure Time	5.76 - 13.5 seconds
Tube Voltage	100 - 130 kVp
Tube Current	5.5 - 6.5 mA
Image Detector	Amorphous Silicon Flat Panel
Gray Scale	16 bit
System Dimensions	57"h x58"d x73"w (145cm x 147cm x 185cm)
Chair Dimensions	51"h x76"d x28"w (131cm x 194cm x 72cm)
System Weight	850 lbs (385kg) + 220 lbs (100kg) for chair
Power Requirements	120V/240V



CurveBeam

Watch a 2-minute demo of the HiRise™

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mHiRise3 Rev. A 12/2020