

Powerful images. Clear answers.

Horizon™ DXA System: An Innovative Solution for Accurate Diagnosis

Hologic, the pioneer in X-ray based bone densitometry, takes advanced health assessment to a new level with the **Horizon DXA System**. This multi-faceted system can help clinicians assess bone health, body composition and cardiovascular risk — critical elements that will help patients keep life in motion.

The **Horizon DXA System** features the latest innovations in bone densitometry technology; including a new digital high resolution ceramic detector array, as well as a new high frequency X-ray Generator. When paired with our exclusive **OnePass™** true fan-beam acquisition geometry, Horizon delivers rapid, dual-energy bone density measurements in a single-sweep, eliminating beam overlap errors and image distortion found in rectilinear acquisition techniques. We've also improved our **Dynamic Calibration System**, which delivers pixel-by-pixel calibration through bone and tissue equivalents — for greater long-term precision. The adjustable aperture is now completely lead-free. This, combined with the elimination of cadmium from the detectors, currently makes the Horizon DXA system the greenest on the market.

**HOLOGIC®**

Horizon DXA system product specifications

Patient Weight Limit

450 lbs

Typical Exposure Time and Entrance dose

Lumbar spine.....10 sec / 0.04 mGy (C, W, A models)
Proximal Femur10 sec / 0.04 mGy (C, W, A models)
SE femur15 sec / 0.025mGy (C, W, A models)
IVA™ option in HD.....15 sec / 0.025 mGy (C, W, A models)
Whole body174 sec / 0.007 mGy (A models)
272 sec / 0.015 mGy (Wi, W models)

Advanced Fan-Beam DXA Technology

OnePass™ Acquisition Technique; Multi-Detector Array Scanning Method

New High-resolution multi-element detector array with gadolinium sulfoxylate GADOX scintillator technology used in modern CT devices (64 to 216 detectors, model dependent)

New High Frequency X-ray Generator

X-ray System Switched-pulse dual-energy (100 kVp/140 kVp)

Indexing Scan Table with Positioning Accessories

Motorized Table and Rotating C-arm (A models)

Motorized Table and C-arm (Ci, Wi, C, W models)

Dynamic Internal Reference System for Continuous Calibration

Computer Console

QDR™ Anthropomorphic Spine Phantom

Standard Computer Hardware (Minimum Configuration)

Computer Workstation with Dual Core 3 GHz
Windows® 7 Professional
250 GB hard drive
2 GB RAM
19" Widescreen LCD Monitor
HP Professional Series Color DeskJet® printer
DVD RAM drive

Standard Configuration:

Hologic APEX™ Operating System

Automatic PASS/FAIL Quality Control
Express BMD 10 Second Acquisition (C, W, A models)
Single Energy Scan Display Capability
Window/Level Control for Image Optimization

Apex Productivity Tools

Express Exam™ Workflow Management
OneTime™ Auto Analysis with Histogram
ProTech with DXApro
Auto Hip Positioning
Reposition/Rescan Feature
Automatic Scan Comparison for Serial Exams
Least Significant Change Configuration

Horizon Advance Reporting Solutions

QDR OnePage™ Report with Rate of Change Assessment

FRAX® 10 Year Fracture Assessment

New Dual Hip™ Report

New integrated Physicians Report Writer™ DX Feature

Horizon Scan and Analysis Protocols

AP Lumbar Spine with Automatic Low Density Analysis and Scoliosis Analysis

Supine Lateral Spine with Baseline Compensation (A models)

Proximal Femur, Automatic Low Density Analysis and Hip Structure Analysis™ (HSA) Feature

Dual Hip™ Feature

Forearm

Whole Body BMD (Wi, W, A models)

Advanced Body Composition™ Analysis with InnerCore™
Visceral Fat Assessment

IVA HD with Image Pro High Resolution Imaging Capability (C, W, A models)

Quantitative Morphometry

Integrated Physicians Viewer™ with MXApro™ Feature

New Atypical Femur Fracture Assessment (AFF) High Resolution Imaging Capability (C, W, A models)

Pediatric Analysis for Spine, Femur and Forearm

Pediatric Whole Body with Body Composition Assessment (Wi, W, A models)

External Shielding

None required†

BMD Precision

<1.0%

Scan Region

38" x 20" (77" x 26" on whole body models)

Table Height

28"

Calibration

Automatic, continuous calibration using Hologic's automatic internal reference system

Operator calibration not required

Automatic quality control program with multiple system checks

Operating Requirements

Temperature: 60° - 90°F (15°-32°C)

Power: 100 VAC (16 A); 120 VAC (14 A); 230 VAC (8 A)

Humidity: 20% - 80% relative humidity, noncondensing

Average heat load: 3,400 BTU/hr.

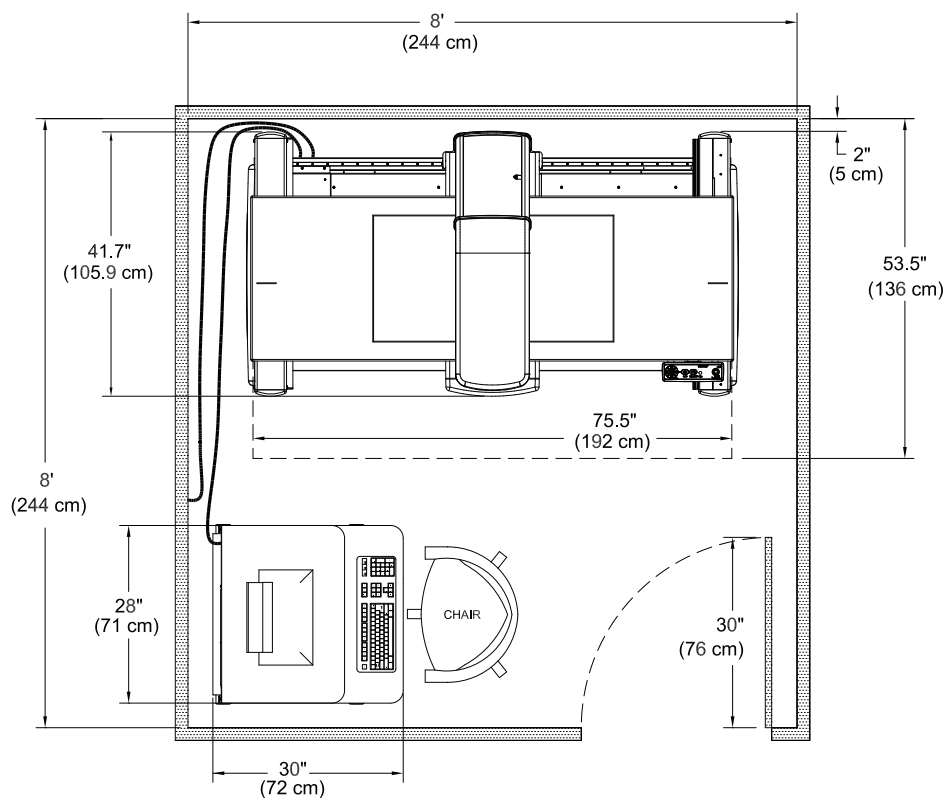
Scan site specifications according to model

Horizon Ci	Horizon Wi	Horizon C	Horizon W	Horizon A
64 Detectors	64 Detectors	128 Detectors	128 Detectors	216 Detectors
Regional Scans 30 s	Regional Scans 30 s	Regional Scans 10 s	Regional Scans 10 s	Regional Scans 10 s
		Hi-Definition Vertebral Fracture Assessment with Abdominal Aortic Calcification detection	Hi-Definition Vertebral Fracture Assessment with Abdominal Aortic Calcification detection	Hi-Definition Vertebral Fracture Assessment with Abdominal Aortic Calcification detection
		Atypical Fracture Assessment	Atypical Fracture Assessment	Atypical Fracture Assessment
	Advanced Body Composition™ Assessment with InnerCore™ Visceral Fat Assessment		Advanced Body Composition Assessment with InnerCore Visceral Fat Assessment	Advanced Body Composition Assessment with InnerCore Visceral Fat Assessment
Lumbar Spine	Lumbar Spine	Lumbar Spine	Lumbar Spine	Lumbar Spine
Decubitus Lateral BMD	Decubitus Lateral BMD	Decubitus Lateral BMD	Decubitus Lateral BMD	Supine Lateral BMD
Dual Hip	Dual Hip	Dual Hip	Dual Hip	Dual Hip
Proximal Femur	Proximal Femur	Proximal Femur	Proximal Femur	Proximal Femur
Forearm	Forearm	Forearm	Forearm	Forearm
Hip Structure Analysis	Hip Structure Analysis	Hip Structure Analysis	Hip Structure Analysis	Hip Structure Analysis
General Region of Interest	General Region of Interest	General Region of Interest	General Region of Interest	General Region of Interest

Research package option

- Prosthetic hip
- Small Animal
- Infant Whole Body with Body Composition Assessment and subregional analysis (Wi, W and A models)

Horizon DXA system footprint



The Horizon DXA system packs a lot of performance into a small footprint. Operating from existing dedicated power sources, the system fits comfortably in an 8' X 8' exam room (8' X 10' for whole body models) and requires no protective shielding or special room preparations.*