

# 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.



Model shown: Horizon A

Horizon® DXA system product specifications

<b>Patient Weight Limit</b> 227kg (500lbs)
<b>Typical Exposure Time and Entrance Dose</b> Lumbar spine .....10 sec / 0.04 mGy (C, W, A models) Proximal Femur .....10 sec / 0.04 mGy (C, W, A models) SE femur .....15 sec / 0.025mGy (C, W, A models) IVA™ option in HD .....15 sec / 0.025 mGy (C, W, A models) Whole body .....113 sec / 0.007 mGy (A models) 290 sec / 0.015 mGy (Wi, W models)
<b>Advanced Fan-Beam DXA Technology</b> OnePass™ Acquisition Technique; Multi-Detector Array Scanning Method High-resolution multi-element detector array with gadolinium sulfoxylate GADOX scintillator technology used in modern CT devices (64 to 216 detectors, model dependent) High Frequency X-ray Generator X-ray System Switched-pulse dual-energy (100 kVp/140 kVp)
<b>Superior Precision and Accuracy<sup>3</sup></b> Dynamic Calibration™ System for Continuous Calibration QDR™ Anthropomorphic Spine Phantom
<b>Mechanical and Positioning System Features</b> Indexing Scan Table with Positioning Accessories Motorised Table and Rotating C-arm (A models) Motorised Table and C-arm (Ci, Wi, C, W models)
<b>Standard Computer Hardware (Minimum Configuration)</b> Computer Workstation with Dual Core 3 GHz Windows® 10 250 GB hard drive 4 GB RAM 18.5" Widescreen LCD Monitor HP Professional Series Color DeskJet® printer DVD RAM drive
<b>Standard Configuration:</b>
<b>Hologic APEX™ Operating System</b> Automatic PASS/FAIL Quality Control Express BMD 10 Second Acquisition (C, W, A models) Single Energy Scan Display Capability Window/Level Control for Image Optimisation
<b>Apex Productivity Tools</b> 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

<b>Horizon Advance Reporting Solutions</b> QDR OnePage™ Report with Rate of Change Assessment FRAX® 10 Year Fracture Assessment Dual Hip™ Report Integrated Physicians Report Writer™ DX Feature
<b>Horizon Scan and Analysis Protocols</b> AP Lumbar Spine with Automatic Low Density Analysis and Scoliosis Analysis Supine Lateral Spine Proximal Femur, Automatic Low Density Analysis and Hip Structure Analysis™ (HSA) Feature Dual Hip™ Feature Forearm Horizon® Wi, W and A models: Whole Body BMD Advanced Body Composition™ Analysis with InnerCore™ Visceral Fat Assessment IVA HD with Image Pro High Resolution Imaging capability for C, W and A models IVA with Image Pro Imaging Capabilitiy optional for Ci and Wi models Quantitative Morphometry Integrated Physicians Viewer™ with MXApro™ Feature 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)
<b>External Shielding</b> None required <sup>†</sup>
<b>BMD Precision</b> <1.0%
<b>Scan Region</b> 195.5 x 65 cm for Wi and W models 195.5 x 66 cm for A models
<b>Table Height</b> 71cm
<b>C-arm Clearance</b> 61cm
<b>Calibration</b> Automatic, continuous calibration using Hologic's automatic internal reference system Operator calibration not required Automatic quality control program with multiple system checks
<b>Operating Requirements</b> Temperature: 15-32°C ( 60-90°F) 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

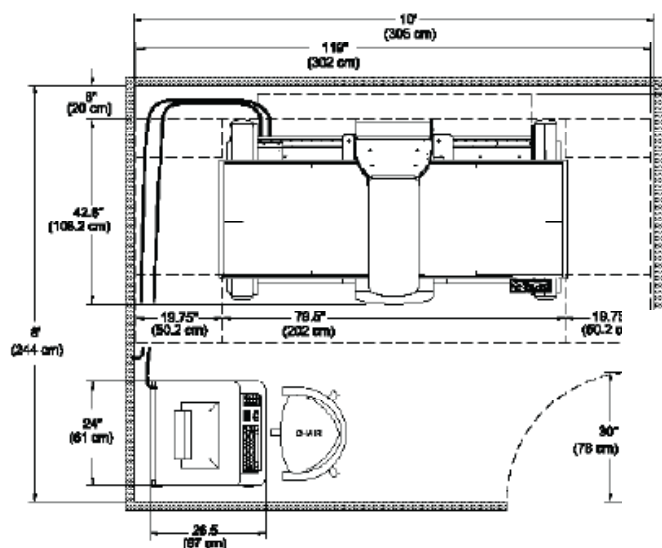
Horizon® Ci	Horizon Wi	Horizon A	Horizon W	Horizon C
64 Detectors	64 Detectors	216 Detectors	128 Detectors	128 Detectors
Regional Scans 30 s	Regional Scans 30 s Body Comp 6 min	Regional Scans 10 s Body Comp 3 min	Regional Scans 10 s Body Comp 6 min	Regional Scans 10 s
Optional Vertebral Fracture Assessment	Optional Vertebral Fracture Assessment	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	Supine Lateral BMD	Decubitus Lateral BMD	Decubitus 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

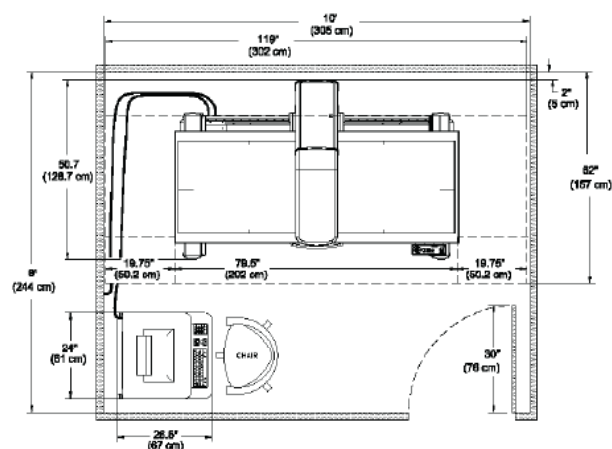
- Prosthetic hip
- Small Animal
- Infant Whole Body with Body Composition Assessment and subregional analysis (Wi, W and A models)

NOTE: Features and specifications subject to change without notice.  
<sup>†</sup> Some components of the IRIS™ package can be purchased separately.  
<sup>‡</sup> Installation requirements for X-ray equipment vary. Check with local regulatory authorities.  
<sup>\*</sup> Times are dependent on area scanned and represent total irradiation time at 60Hz.

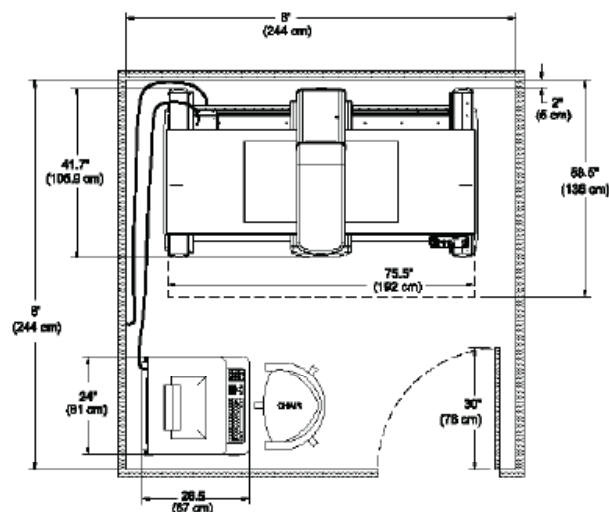
## Horizon® DXA system footprint



**Figure 1-1. Horizon A**



**Figure 1-2. Horizon W, Horizon Wi**



**Figure 1-3. Horizon C, Horizon Ci**

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.\*

\*Installation requirements for X-ray equipment vary. Check with local regulatory authorities.

### References

1. K023398, K041226, K042480, K130277 (AFF), K113356(VAT), K103265(Whole Body), K072847 (AAC), K060111 (AAC) 2. K023398 3. Hargartner, TN. A study of long-term precision of dual energy X-ray absorptiometry bone densitometers and implications for the validity of the least-significant-change calculation. Osteoporosis Int. 2007

**Contact your Hologic representative to learn more or visit [hologic.com](http://hologic.com)**

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DXA System