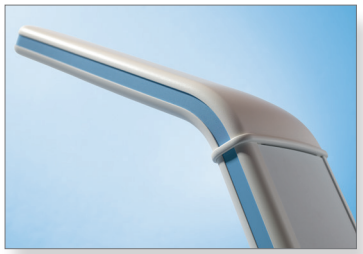
Powerful data.
Clear answers.

Horizon® DXA System

When your patients' health is in your hands, you want the highest-quality images possible to accurately determine bone mineral density, pinpoint fractures, identify aortic calcifications and measure body composition.

Horizon DXA system features the latest innovations in bone densitometry technology, including a digital high-resolution ceramic detector array and a high frequency X-ray generator.[1] When paired with our exclusive OnePass™ fan-beam acquisition geometry, Horizon DXA system delivers rapid, dual-energy bone density measurements in a single-sweep, eliminating beam overlap errors and image distortion found in rectilinear acquisition techniques. Our Dynamic Calibration™ system delivers pixel-by-pixel calibration[1] through bone and tissue equivalents — for greater long-term precision.[2]



Model shown: Horizon A

Horizon DXA System Product Specifications

Accessibility	
Patient Weight Limit	500 lbs (227 kg)
Table Height	28"
C-arm Clearance	24"

Typical Exposure Time (not total scan time) and Entrance Dose*	
Lumbar spine	10-sec / 0.04 mGy (A, W, C models)
Proximal femur	10-sec / 0.04 mGy (A, W, C models)
SE femur	15-sec / 0.025 mGy (A, W, C models)
IVA™ option in HD	15-sec / 0.025 mGy (A, W, C models)
Whole body	113-sec / 0.007 mGy (A models) 290-sec / 0.015 mGy (W, Wi models)

Advanced Fan-Beam DXA Technology

- OnePass™ fan beam technology for precision and a fast scan time
- High-resolution multi-element detector array with gadolinium sulfoxylate ceramic GADOX scintillator technology used in modern CT devices (64 to 216 detectors, model dependent)
- High frequency, oil cooled X-ray generator
- X-ray system switched-pulse dual-energy (100 kVp/140 kVp)

Superior Precision and Accuracy[2]

- Dynamic Calibration™ system for continuous calibration
- QDR™ anthropomorphic spine phantom

Mechanical and Positioning System Features

- Indexing scan table with positioning accessories
- Motorized table with rotating C-arm (A model)
- Motorized table with C-arm (W, Wi, C, Ci models)

Standard Computer Hardware (Minimum Configuration)

- Computer workstation with dual core 3 GHz
- Windows® 10 LTSC 2019
- 500 GB hard drive
- 32 GB RAM
- Widescreen LCD monitor
- HP Professional Series color DeskJet® printer
- DVD RAM drive

Standard Configuration:

Horizon APEX™ Operating System

- Automatic PASS/FAIL quality control
- Express BMD 10 second acquisition (A, W, C models)
- Single energy scan display capability
- Window/Level control for image optimization

External Shielding

- None required‡

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
- Dual Hip™ software report
- 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) software feature
- Dual Hip™ feature
- Forearm
- Whole body BMD (A, W, Wi models)
  - Advanced Body Composition® Analysis with InnerCore™ visceral fat assessment
- IVA HD with Image Pro™ high resolution imaging capability (A, W, C models)
  - Quantitative morphometry
  - Integrated Physicians Viewer™ with MXApro™ feature
- Atypical Femur Fracture (AFF) assessment high resolution imaging capability (A, W, C models)
- Pediatric analysis for spine, femur and forearm
- Pediatric body composition assessment (A, W, Wi models)

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.

BMD Precision

- <1.0%

Scan Region

- 38" x 20" (77" x 26" on whole body models) 77" x 26" (A, W, Wi models) 38" x 20" (C, Ci models)

NOTE: Features and specifications subject to change without notice.
Some components of the IRIS™ package can be purchased separately.‡ Installation requirements for X-ray equipment vary. Check with local regulatory authorities.
* Times are dependent on area scanned and represent total irradiation time at 60Hz for 64" scan length.

Scan site specifications by model

Horizon A	Horizon W	Horizon C	Horizon Wi	Horizon Ci
216 detectors	128 detectors	128 detectors	64 detectors	64 detectors
Regional scans 10-sec† Body comp 3-min	Regional scans 10-sec† Body comp 6-min	Regional scans 10-sec†	Regional scans 30-sec Body comp 6-min	Regional scans 30-sec
Supine HD Instant Vertebral Assessment™ with abdominal aortic calcification detection	HD Instant Vertebral Assessment with abdominal aortic calcification detection	HD Instant Vertebral Assessment with abdominal aortic calcification detection		
Atypical femur fracture assessment	Atypical femur fracture assessment	Atypical femur 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
Supine lateral BMD	Decubitus lateral BMD	Decubitus 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
Custom region of interest	Custom region of interest	Custom region of interest	Custom region of interest	Custom region of interest

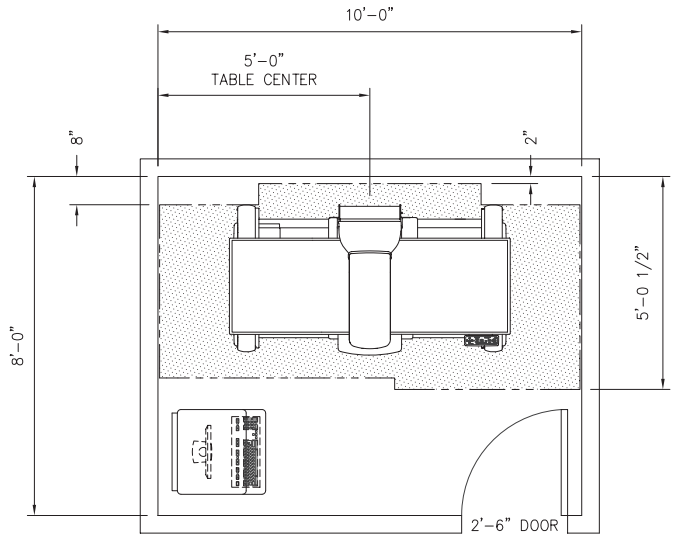
Research package option

- Prosthetic hip*
- Small animal
- Infant whole body with Body Composition Assessment and subregional analysis (A, W, Wi models)*

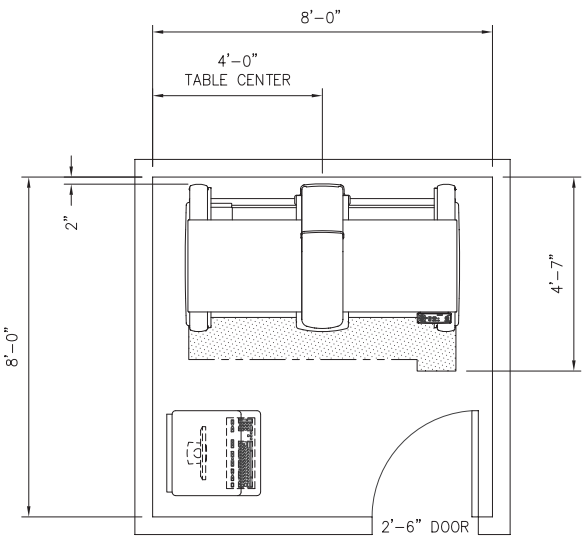
* Not available in all markets

† Using eXpress mode. Optional TBS iNsight™ software by Medimaps™ Group requires Fast or Array modes, 30 and 60 seconds respectively.

Horizon DXA system footprint



HORIZON A, W, WI EQUIPMENT PLAN
MINIMUM RECOMMENDED ROOM SIZE



HORIZON C, CI EQUIPMENT PLAN
MINIMUM RECOMMENDED ROOM SIZE

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.

K023398, K041226, K042480, K130277 (AFF), K113356(VAT), K103265(Whole Body), K072847 (AAC), K060111 (AAC)

References

1. K023398 **2.** Hangartner, 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

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