Hologic pioneered dual x-ray (DXA) bone densitometry technology which has become the industry standard for assessing bone health and osteoporosis risk. Today, using the Discovery™ system, clinicians can identify fractures not discernible by physical examination, while determining basic bone mineral density and the patient’s T-score. The system also offers several other impressive applications such as High Definition Instant Vertebral Assessment™ (IVA™-HD) which provides a high resolution image for assessing vertebral fractures while also providing visualization of the abdominal aorta for evaluating calcifications (AAC), FRAX® fracture risk assessment, and Advanced Body Composition™ assessment with InnerCore™ visceral fat assessment which affords the clinical practitioner an overview of fat mass, lean mass, and visceral fat all of which could be key indicators for cardiovascular risk and other metabolic disease states.
Discovery™ DXA System

Product Specifications

Patient Weight Limit
450 lbs

Typical Exposure Time
- Lumbar spine & femur...10 sec / 0.04 mGy (A, SL, W, C models)
- IVA™-HD .....................15 sec / 0.025 mGy
- Whole body .................. 174 sec / 0.007 mGy (A model)
- 272 sec / 0.015 mGy (PW, Wi, W models)

Standard Computer Hardware (Minimum Configuration)
- Computer worktable with Dual Core 3 GHz
- Windows® 7 XP Professional 32 bits
- 250 GB hard drive
- 2 GB RAM
- 17” LCD flat panel monitor
- HP color InkJet® printer
- DVD RAM drive
- Network ready

Optional Hardware
- HP color LaserJet® printer
- Oasis stand-alone workstation

Standard Software Configuration
- APEX™ operating system
- FRAX® World Health Organization 10-Year Fracture Risk Assessment
- Express BMD (not available on P or -i models)
- Tech Tips™
- Express Exam™ protocol grouping program
- AccuView™ hip positioning
- ProTech with DXApro
- OneTime™ auto analysis
- NHANES body composition reference data (PW, Wi, W and A models)
- BMDCS pediatric reference data for spine, hip, forearm and whole body
- QDR® OnePage™ report
- ISCD compliant reporting software
- Context sensitive help
- Colored fracture risk indication report
- Auto low BMD analysis for spine and hip
- Scan/Analyze protocols for AP lumbar spine, proximal femur, Dual Hip™ software, forearm, and scoliotic spine, pediatric spine, hip, and forearm
- Advanced Body Composition™ assessment and subregion analysis (PW, Wi, W and A models)
- InnerCore™ visceral fat assessment (PW, Wi, W and A models)
- Physicians Viewer™ software with MXApro™ computer aided fracture assessment tool
- Serial examination trending with facility specific LSC

Optional Software
- Physicians Report Writer™ DX
- IRIS™ enterprise connectivity suite*
- DB Sync™ database synchronizer

Scanning Method
- Linear X-ray fan-beam, utilizing motorized table and C-arm

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

Detector System
- Multi-element high resolution digital detector array

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

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.
## Scan Site Specifications According to Model

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### Research Option Package

- Prosthetic Hip
- Small Animal
- Infant Body Composition Assessment and Subregion Analysis (only on PW, W and A systems)
The Discovery™ 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 require no protective shielding or special room preparations.*

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