For more than 100 years, healthcare providers worldwide have relied on GE Healthcare for medical technology, services, and productivity solutions.

No matter what challenges your healthcare system faces, you can always count on GE to help you deliver the highest quality healthcare.

For details, please contact your GE representative today.

GE Healthcare
726 Heartland Trail
Madison, WI 53717
USA

www.gehealthcare.com
Imaging Excellence

Innovation and Dedication

iDXA is a prime example of GE Healthcare’s breakthrough strategy with emphasis on image quality, ease of use, precision and productivity.

iDXA provides unprecedented image quality with the best demonstrated precision and accuracy. iDXA comes with a highly automated platform and integrated connectivity.
Precision you can detect

Osteoporosis treatment requires some time to monitor. Measuring with iDXA allows detecting bone changes 2 times faster than with other systems*, which is due to the CZT-HD detector that enhances precision allowing you to track bone changes that previously were too small to detect. Moreover, the Lunar exclusive calibration technology takes the entire body into account by performing a 6-point calibration with normal, osteopenic and osteoporotic BMD values, as well as lean, normal and obese values.

Cutting-edge technology

iDXA’s unique integrated x-ray technology is designed from the ground up to deliver ultra-stable output needed for unsurpassed precision and image clarity.

iDXA CZT-HD*

A staggered array that eliminates dead space between detectors, which yields higher resolution. *patent pending.

Going digital

iDXA’s newly patented direct-digital CZT detector with staggered array detector provides near radiographic image quality providing clearer and crisper images than ever seen in a densitometer before.

Automated 6-point calibration and quality assurance ensures your system is accurate for a full range of BMD and tissue composition values.

* JBMR 2003; 18 (Suppl 2): S201
Incredible

Unprecedented image quality

iDXA delivers crisp, high resolution images of all skeletal sites, revealing detail never seen before. It clearly renders the end plates on spine images and identifies intervertebral spaces easily. You can see proximal femur details like the femoral head, visualize cortical thickness, and see unprecedented total body images.

Dual-energy Vertebral Assessment (DVA) provides rapid, dual-energy images of the AP and lateral spine, allowing you to visually identify the presence of vertebral fractures and helps eliminate the need to cross-reference lateral radiographs because of difficult-to-read imagery.

All images in this gallery are courtesy of University of Wisconsin Osteoporosis Center.
Automated reporting
Composer automatically generates patient reports, including assessment and follow-up recommendations. Scan results are based on predefined criteria established by the World Health Organization (WHO), the International Society for Clinical Densitometry (ISCD) and the National Osteoporosis Foundation (NOF). Composer determines the lowest T-score among user-defined regions, and automatically inserts the corresponding assessment and recommendation, as defined by the physician.

Intelligent design
iDXA’s open architecture accommodates patients up to 450 lbs/180 kg and allows for easy decubitus positioning of longer subjects.

Support you can count on
Your system is maintained with precision, diagnosed with speed and serviced with confidence. Surveys consistently rate our service as “world-class” for the following reasons:
• Fast service response time
• High technical and clinical expertise
• Differentiated service offerings
• Dedicated Lunar service response team

Intuitive features and enhancements automatically optimize the process for ease of use.

No 2 people are alike
With the wide range of body sizes, the distance of a patient’s spine or femur from the tabletop can vary considerably and this can cause inaccurate area and bone mineral measurements. TruView image reconstruction, just like CT images are created, eliminates inherent magnification and distortion effects. TruView assesses the size of the anatomy accurately without making assumptions, providing true area and BMC measurements of the bone as well as geometric dimensions necessary for Femur Strength Index and Hip Axis length studies.

Computer Assisted Densitometry
CAD: GE patented technology saves you time and effort by automatically identifying potential acquisition and analysis errors.

CAD alerts you to incorrect positioning, unusual anatomy, high-density areas and artifacts, and makes recommendation for correction via multimedia help.
Intelligent

Historically, DXA has ‘just’ assessed bone – one part of the overall body wellness picture. iDXA assesses bone, fat, and lean tissue that gives you a comprehensive view of total body health in one single exam. You can analyze body composition, including fat percentage and distribution, for expanded clinical and research applications.

Predicting the future
iDXA offers a unique assessment of hip and overall fracture risk, based on femoral neck T-score, age, and gender. The personalized risk calculator (Kanis Model) estimates the patient’s specific 10-year fracture risk.

Advanced Hip Assessment (AHA)
AHA provides a comprehensive analysis of cortical thickness with density dependent bone mapping, geometric parameters, CSMI, neck-shaft angle, HAL and Femur Strength Index— all integrated into one package for clinical convenience.

• Hip Axis Length (HAL)
HAL has been demonstrated in prospective studies as an independent adjunct to femur bone density in predicting fracture.

• Cross Sectional Moment of Inertia (CSMI)
CSMI provides femur strength indication when using the iDXA for research into load-bearing capacity of the hip.
The Lunar exclusive DICOM solution meets any PACS connectivity requirements, while achieving IHE5 compliance. Features include DICOM structured reports, image storage and commitment, DICOM worklist and DICOM print. It sends reports and images to your PACS server in color or black and white, and can integrate with your RIS worklist and modality performance procedure step.

The optional HL7 feature allows the iDXA to receive and transmit records. That includes receiving patient demographics and exporting patient exam results. This integrates your densitometer with your existing electronic medical records, thereby closing the loop on your records and billing system. HL7 can also attach images to your compliant EMR.

Densitometry on the go
DEXTER™ enables you to view images and results anytime, anywhere. DEXTER is a PDA-like BMD review and dictation system that includes pan and zoom for bone image display at the same aspect ratio as a computer monitor.

On Demand Digital Service
It’s all about speed. When you contact GE Healthcare for service, our on-line engineers can electronically link to your system and work to quickly get you back up running. If a field engineer needs to be dispatched, he or she will be prepared with a system diagnosis - and if required, have the right parts on hand. In addition, our applications specialists can reach out at your request to support or train. Ask your sales representative how.
Lunar iDXA

Innovation and dedication

Intuitive
- enCORE software requires 1/3 the user intervention of competitive systems
- CAD® proven by experts to help both experienced and new densitometrists acquire excellent scans
- OneScan® improves throughput by 20%
- Composer™ is the only reporting software that complies with the ISCD reporting standards
- HL7 and DICOM compatibility

Innovative
- The iDXA bone densitometer has up to 40% better clinical precision when compared to competing systems
- Eliminates magnification error inherent to all fan-beam systems by overlapping the fan-beam, allowing the accurate measurement of the area of the anatomy measured. Measuring instead of assuming an image plane, reduces area measurement errors caused by changes in a patient’s body habitus
- 6-point calibration system improves accuracy for all body types and BMD values ensuring that Lunar iDXA delivers more accurate results

Standard Features
- AP Spine
- Single Femur
- DualFemur
- Dual-energy Vertebral Assessment (DVA)
- HIPAA SecureView
- Advanced Hip Assessment
  - Geometric parameters
  - Hip Axis Length (HAL)
- Forearm
- Total Body BMD
- Combined Report & Scan Protocols
- Composer Physician Reports
- OneScan
- Computer Assisted Densitometry (CAD)
- DICOM - IHE5 certified
- TeleDensitometry - fax, e-mail
- Total Body Composition
- Practice Management Tools
- Onsite Training (2 days)
- Washable Table Pad

Optional Features
- HL7
- DEXTER PDA
- Multi-User (1-3) Database
- Multi-User (1-10) Database
- On-site Database Conversion

Power
100-127/200-240 VAC +/-10%, THD<5%*, 750 VAC
* Total harmonic distortion

Temp/Humidity
65 - 81 F (18 - 27 C) 20%-80% non-conditioning

System Weight
353 kgs (779 lbs)

Patient Weight Limit
450lbs (180 kg)

Footprint
LxWxH
302 x 131 x 125cm
119 x 52 x 50in

Minimum Room Size
LxWxH
3.5 x 3.2m / 11 x 10.5ft

The Lunar iDXA is designed to have minimal impact on your practice in both the installation requirements and required operating space. The iDXA efficiently fits in a 11’ x 10.5’ exam room, with the included workstation. No operator shielding or special site preparation beyond a dedicated 100-127/200-240 VAC duplex outlet is required.** The outlet should be placed near the desired location of the operator’s console.

** Consult and follow local x-ray regulations.

For details, please contact our local office at 888-826-7050, fax us at 608-826-7106, or write to us at 726 Heartland Trail, Madison, WI, 53717.