Lunar DPX Duo
World’s First DEXAM® Bone Densitometer

imagination at work
There's a place in your practice for full function bone densitometry. But is there room for it in your office? With the Lunar DPX Duo, the world’s first DEXAM* system, the answer is: definitely!

In fact, you can add this breakthrough bone densitometer to your office with zero net change in available square footage. That’s because the DPX Duo unit doubles as an examination table. When you are not using it for bone densitometry studies, you can use it for regular patient visits. Its compact footprint fits in almost any room**.

Independent studies demonstrated DPX Duo’s low precision error – the key for detecting early bone changes in your patients. DPX Duo is a SmartBeam™ platform delivering reliable bone mineral density measurements enabling you to make sound patient care decisions. Best of all, it brings bone densitometry to where the patients are – your office.

By applying Six Sigma methodology, a process which focuses entirely on your needs, we provide the technology, functionality and reliable performance you asked for. All your needs are met with the Lunar DPX Duo bone densitometer.

*DEXAM: Densitometry System and Exam Table
**Consult local x-ray regulations for room requirements
Diagnostic confidence.

Lunar DPX Duo is a SmartBeam™ platform providing high performance scanning and clinical utility. You get measurements of the two most vital clinical sites – spine and femur – in seconds, and at a low radiation dose. Forearm software is also available in option.

The highly automated enCORE™ software platform, based on Windows, optimizes productivity and ensures consistent results. Advanced OneScan and SmartScan features provide unprecedented ease of use and high precision.

Efficient

OneScan automatically combines scans of the spine and hip into one exam, acquired in one process and evaluated in one analysis. Rather than receiving multiple assessment reports, you and your referring physicians receive a single, consolidated report that combines the risk assessment analyses for greater convenience and time savings.

Confident

The optional DualFemur feature automatically measures both the left and right femurs in one fast scan. DualFemur improves accuracy by identifying the femur with the lowest density. The 30%* improvement in precision seen with the combined L/R BMD, enhances the ability to monitor response to therapy at this critical fracture site.

Seamless

The Lunar DPX Duo patient report combines key diagnostic results. It prominently displays T-scores along with fracture risk assessment graphs based on the World Health Organization (WHO) criteria for diagnosing osteoporosis. This makes result interpretation and fracture risk assessment seamless.

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* SL Bonnick, LA Lewis. Texas Women’s University, Denton, TX, USA. ISCD Meeting, 2002.
Automated

Patient scanning is quick and automated with the SmartScan™. This unique measurement technique automatically adjusts the scan path real-time during the examination. Consistent, accurate and fast results are achieved without compromising reliability or precision of the result.
"The Lunar DPX Duo does a wonderful job in small spaces. Our patients appreciate having bone density scans done at the clinic rather than being referred to a facility. They also like that I am able to discuss their BMD assessment right away."

Lewis Blumenthal M.D., OB/GYN
Women's Health Consultants, Chicago, IL
Quality and productivity.

Your Lunar DPX Duo bone densitometer system comes with advanced tools that help you provide quality care, easily and efficiently.

**Speed and ease of use**
With minimal training, any member of your staff can get fast, reliable results with the Windows-based enCORE software. The intuitive graphical user interface combined with the AutoAnalysis calculates patient results with no operator intervention in more than 95 percent of clinical cases*.

The Composer option quickly creates physician customized reports with automated extraction of the patient’s results.

**Quality**
Computer Assisted Densitometry (CAD) automatically studies acquisition inputs and the acquired image, looking for errors and patient irregularities. When it detects anomalies, it displays explanations and instructions. CAD helps speed throughput and reduces errors. It also may help technologists provide diagnostic-quality information to the interpreting physician.

**Connectivity**
The DPX Duo's TeleDensitometry feature sends digital, paperless reports as faxes attached to standard e-mail messages. These results can be viewed on any personal computer without the need for special software. The optional DEXTER PDA software allows you to review scans anywhere, anytime.
The DICOM and Multi-user Database Access options ensure maximum connectivity.

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* Steinberg D, presented at ISCD 2003.
For more than 100 years, healthcare providers worldwide have relied on GE Medical Systems for medical technology, services and productivity solutions. So 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.

**Applications**

**Available features**
- AP Spine
- Femur
- DualFemur
- Forearm
- OneVision
- OneScan
- Computer Assisted Densitometry (CAD)
- TeleDensitometry
- Composer
- Dexter-PDA Interface (without PDA)
- DICOM
- Multi-user Database Access

*Networking under user’s responsibility

**Performances**

**Typical Scan Time and Exposure**

<table>
<thead>
<tr>
<th>Site</th>
<th>Scan Time</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Spine</td>
<td>90 sec</td>
<td>20 µGy</td>
</tr>
<tr>
<td>Femur</td>
<td>90 sec</td>
<td>20 µGy</td>
</tr>
</tbody>
</table>

*maximum at Standard mode

**Precision**

< 1% CV

**Scatter Radiation**

< 2µSv/hr at 1m

**Specifications**

enCORE™ Software Platform

- Advanced intuitive graphical interface
- Multiple Patient directories using Microsoft Access® database
- SmartScan™ for scan window optimization
- Automated Scan mode selection
- AutoAnalysis™ for a better precision
- Customized Analysis for clinical flexibility
- BMD or sBMD results (BMC and Area)
- Extensive Reference Data

- > 12,000 subjects – NHANES and several Regional Lunar Reference Data
- User defined Reference Population
- T-score, Z-score, % Young-Adults and % Age-Match
- Automated WHO Background evaluation
- Patient trending with previous exam importation
- Multiple languages available
- Multimedia Online Help

**Calibration and Quality Assurance**

- Automated Test program with complete mechanical and electronic tests and global measurement calibration
- Automated QA Trending with complete storage

**Scanning Method**

- DXA SmartBeam with SmartScan™
- - no scout scan required
- - no magnification for the best precision
- - optimization of the scan windows to reduce time and exposure
- - best scan parameter according to the patient corpulence

**X-ray characteristics**

- Constant source at 76kV
- Dose efficient K-edge filter
- Permanent dual energy x-ray beam

**Detector technology**

- NaI PM tube
- High rate Pulse-counting electronics

**Environmental requirements**

- External shielding: X-ray safety requirements may vary upon destination. Please inquire with local regulatory authorities
- GE Medical Systems LUNAR recommends consulting your local regulatory agency to comply with local ordinances
- Ambient temperature: 18-27°C
- Humidity: 20% - 80%, non-condensing
- Power: 230/240 VAC ±10%, THD <5%, 600VA, 50/ 60 Hz
- Dimensions (L x H x W) and weight
- 187 x 145 x 87 cm - 273 kg
- Table height 80cm
- Swing Arm- no moving table- operational space 187 x 145 x 104 cm
- Washable vinyl table pad
- Two storage drawers
- Step for an easy access
- Exam paper dispenser
- Extendable leg rests
- Treatment pan

**Positioning**

- Laser light
- SmartScan™ - Autodetection of bone tissue

**Computer workstation**

- Windows XP® Professional
- Intel processor computer, printer and monitor
- Contact GE Medical Systems Lunar or our local distributor for the detailed current configuration and optional hardware.

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GE Medical Systems

Internet – gemedicalsystemseurope.com
GE Medical Systems Lunar
Kouterwilstraat 20
1811 Diegem
Belgium
Tel. +32 2 7197203
Fax +32 2 7197223

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