

# Lunar DPX Duo

World's First DEXAM®

Bone Densitometer



imagination at work





There

# IS a place for bone densitometry... in your office.

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.*



*The DPX Duo bone densitometer doubles as an exam table. The swing arm design lets you easily move the arm to the side for regular patient care.*

  
six sigma  
*The way we work*

*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.*

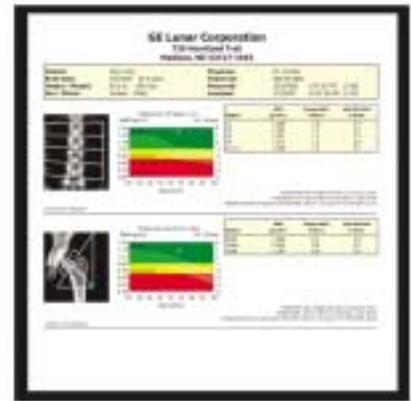
\*DEXAM: Densitometry System and Exam Table

\*\*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

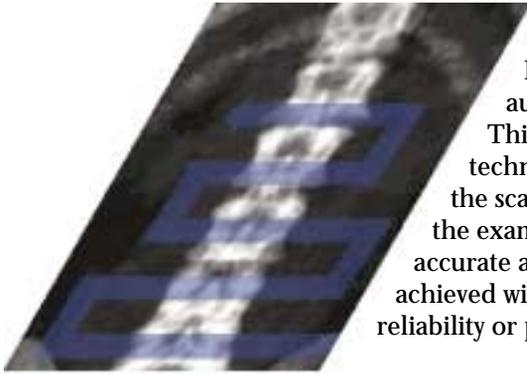
OneScan automatically combines scans of the spine and hip into one exam, acquired in one process and evaluated in one analysis. Rather than receiving multiple assessment reports, you and your referring physicians receive a single, consolidated report that combines the risk assessment analyses for greater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



**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 MD, 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.

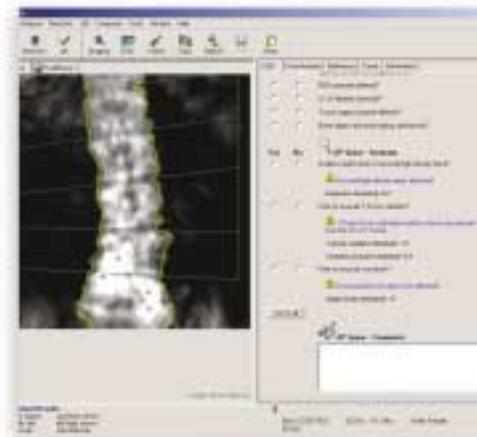
### Quality

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.



## 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 \*

Site	Scan Time	Exposure
AP Spine	90 sec	20 µGy
Femur	90 sec	20 µGy

\* 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.

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.



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