

Lunar DPX NT technical specifications:^{9,14}

Available applications and options

- AP spine
- Femur
- DualFemur
- OneScan
- Advanced Hip Assessment (AHA)
- ScanCheck
- Total body/body composition
- Estimated Total Body %Fat
- Forearm
- Orthopedic
- Pediatric
- OneVision
- Composer
- Lateral spine BMD
- TeleDensitometry (e-mail)
- HIPAA SecureView
- Practice Management tools
- DICOM (worklist, color print and store)
- HL7 bidirectional interface
- Multi-User Database access (MUD8) (1-3 or 1-10 users)
- SQL database
- Applaud CD-based training
- Remote connectivity for direct customer support

enCORE Windows-based user interface

- Advanced intuitive graphical interface with multimedia on-line help
- Multiple languages available
- SmartScan for scan window optimization and dose reduction
- Automated scan mode selection

- AutoAnalysis for better precision
- Customized analysis for clinical flexibility
- Exam comparison process
- Multiple patient directories with database
- BMD or sBMD results, BMC and area
- Extensive reference data: >12,000 USA/Northern European subjects, as well as NHANES, and numerous regional databases.
- T-score, Z-score, % young adult and % age matched
- WHO guidelines for diagnosis of osteoporosis
- Patient trending with previous exam importation
- enCOREXpress mode for brief click path

Standard features

- Washable table pad

Quality assurance

- Automated test program with complete mechanical and electronic tests
- Automated QA trending with complete storage

Scanning method

- DXA pencil-beam technology with SmartScan technology
- No scout scan required, no moving table

X-ray characteristics

- Constant potential source at 76kV
- Dose efficient K-edge filter
- Tube current: 0.05 - 1.50 mA

Detector technology

- NaI PM tube detector
- High pulse rate

Dimensions (L x W x H) and weight

- System: 2.42m x 1.03m x 1.28m - 272kg (95" x 41" x 50" - 599lbs)
- Table height: .63m (25")

Patient weight limit

- 136kg (300lbs)

External shielding

- Not required: X-ray safety requirements may vary by location. Please inquire with local regulatory authorities.
- Operating scatter: < 0.2 mR/hr (2 μ Sv/hr) @ 1m (39") from X-ray source
- GE Healthcare recommends consulting your local regulatory agency to comply with local ordinances.

Environmental requirements

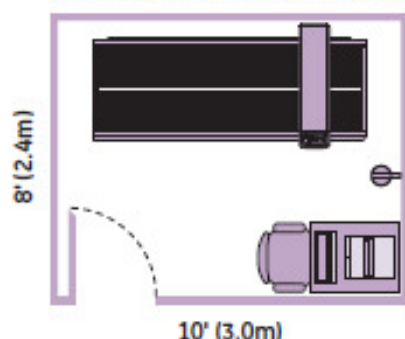
- Ambient temperature: 18-27°C (65-81°F)
- 120 VAC 50-60 Hz 20A dedicated circuit or 230-240 VAC 50-60Hz 10A dedicated circuit $\pm$ 10%
- Humidity: 20%-80%, non-condensing

Computer workstation

- Windows platform
- Computer, printer and monitor



Minimum room dimensions:



References

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2. RE Cole. Dual Femur densitometry - Effect on diagnosis and treatment decisions. Presented at the American Society for Bone and Mineral Research Annual meeting, October 2004.
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4. EN Schwarz, DM Steinberg. Performance of Computer Assisted Densitometry (CAU) in Spine and Femur Analysis: Comparison with Visual Assessment by Experienced Densitometrists. Abstract Published Osteoporos Int 15 (Suppl 1):S39. Poster Presented at the IOF World Congress on Osteoporosis, May 2004.
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6. C Simonelli, L Del Rio, N Binkley. Comparison of Spine BMD Measurements from DXA With and Without Leg Elevation. Abstract Published J Bone Miner Res (2004) 19 (Suppl 1):S36A. Poster Presented at ASBMR Annual Meeting, October 2004.
7. M Kamimura, H Hirabayashi, M Kanishi, Q Zhou, HS Barden, H Kato. Comparison of lumbar spine BMD and T-scores with conventional and OneScan leg positioning in a Japanese population. Presented at the 17th International Bone Densitometry Workshop, Kyoto Japan, November 2006
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9. Networking is under the user's responsibility
10. The World Health Organization (WHO), the International Society of Clinical Densitometry (ISCD) and the National and International Osteoporosis Foundation (IOF and IOF)
11. Molgaard C, Thomsen BL, Prentice A, Cole TJ, Michaelsen KF (1997) Arch Dis Child 76:9-15.
12. Crabtree NJ, Kibirige MS, Fordham JN, Banks LM, Munari F, Chinn D, Salvin CM, Shaw NJ (2004) The relationship between lean body mass and bone mineral content in paediatric health and disease. Bone 35:965-972.
13. Schoenau E, Neu CM, Beck B, Marz F, Rauch F (2002) Bone mineral content per muscle cross-sectional area as an index of the functional muscle-bone unit. J Bone Miner Res 17:1095-1101.
14. Depending on product configuration and availability. Contact GE Healthcare or our local distributor for the detailed current configuration and optional hardware.