

Bone Mineral Density (BMD) Model XD 100S

Bone mineral densitometry system model XD100S (for single bone) and XD 100W (for whole body) has been designed for bone density measurement and body composition analysis with dual energy X-ray absorptiometry technique. This system is capable of preparing a report on bone mineral content and relative density scores as T-score and Z-score based on absorptiometry of dual energy X-ray beam in soft tissue and bone, simultaneously. These scores represent the status of patient bone health in the population and also in patient historical scan data to his/her physician.

Operational Features

- Automatic detector data calibration
- Background noise removal
- Modification and adjustment of X-ray generator voltage
- Automatic image analysis with parameter modification capability by user
- Database creation and updating capability
- Internal network for remote access and control
- Sending scan results and reports in internal network

Technical Specifications

- The technique of radiation and beam: dual energy X-ray absorptiometry (DEXA)
- X-ray generator voltage and current: 80-100 KV and 1.2 mA
- Detector: scintillator photodiode
- Precision/ repeatability: 1%
- Scan positions: AP spine/ Femur/ Forearm/ Whole body
- Scan time: AP spine: 20 s
 - Femur: 20 s
 - Forearm: 20 s
 - Whole body: 2 min
- Scan report: BMD/ BMC/ Tscore/ Zscore/ Area/ Reference Data/ Profile Data/ Periodical BMD
- Machine dimensions: 2500 mm (length) × 1300 mm (width) × 1400 mm (height)
- Working condition:
 - Temperature (15-35 centigrade)
 - Relative humidity: up to 85%
- Electrical power: 220 Vac, 50 HZ, max 5A