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Bone Densitometer

Unigamma x-ray Plus

DEXA system for bone mineral density measurement. Total Body version composed by:

- Bed for the patient
- Movement mechanics controlled by personal computer that is connected on-line to the measurement device. The system is able to scan a surface equal to 180x58 cm^2 of area
- Selection of trace point of the start scan by means of a laser diode
- Scan field defined by the personal computer keyboard with a precision of half centimeter
- Scan spacing selectable by half millimeter steps
- Ultra stable X-Ray Tube with dual photon emission and "Samarium" filter able to produce a thin x-ray beam (pencil-beam) with double energy of 35keV and 75keV end with a current of 0.4mA. Focal spot: 0.6 x 0.6
- NaI (Tl) detector with 1.5” of diameter
- Electronics of measure with two channel to the analysis of two x-ray energy peak
- Personal computer Interface and connection by RS232
- Database organized by date, patient and type of survey
- Survey scan: ***Total Body***, ***Spine*** (front-back and lateral), ***Forearm***, ***Femur***
- Show of the map with the possibility to select horizontal and oblique interest areas
- Software to acquire and elaborate bone density data. WMOC is projected for Microsoft Windows® 9x is 2000 year bug free
- Quality control on-line with automatic registration of the internal standard measurement for each survey made. Possibility to store the results obtained by the equipment standard and control of them by the C.V.%
- Auto-calibration with verification of the internal reference standard before any survey and auto-centering of the x-ray energetic peak
- Database: possibility to compare data inserted into database with reference population, possibility to increase of normality curves by means of insertion of own production, auto-representation of the data expressed in term average value, T-Score and Z-Score, per cent variation respect to the reference population, graph to compare the results with the reference population
- Accessories for patient positioning during the survey
- Calibration Phantoms (1 for Spine end 1 for forearm)

Technical Specification

- Storage and elaboration of survey per day: more than 30
- Patient exposure: less than 5 μS by using standard scan time:
- 5 min. Spine and Femur precision better than 1% pixel dim. 1.5 x 3 mm
- 3 min. Forearm precision better than 1% pixel dim. 0.8 x 1.6 mm
- from 5 to 20 min. per Total-Body precision better than 1% pixel dim. 5 x 15 mm
- from 3 to 15 min. per Total-body precision better than 1% pixel dim. 10 x 30 mm
- 12 min. for vertebral morphometry analysis. valuation of the trend to become cuneiform of each lumbar or dorsal vertebra
- Operator exposure: none for a distance more than 1 meter from the patient
- Dimension (W,H,D) cm. 250 x 140 x 120, weight about 300 Kg
- Electric characteristic: single phase, supply voltage: 220V, frequency 50 Hz, power absorption: 400W

NOTE: The instrument needs a PC compatible with Windows® 9x installed

Version nr.1 scintibloc
Version nr.3 scintibloc
Version nr.5 scintibloc

Unigamma Compact

DEXA system for bone mineral density measurement. Compact version composed by:

- Bed for the patient
- Movement mechanics controlled by personal computer that is connected on-line to the measurement device. The system is able to scan a surface equal to 37x52 cm^2 of area
- Selection of trace point of the start scan by means of a laser diode
- Scan field defined by the personal computer keyboard with a precision of half centimeter
- Scan spacing selectable by half millimeter steps
- Ultra stable X-Ray Tube with dual photon emission and "Samarium" filter able to produce a thin x-ray beam (pencil-beam) with double energy of 35keV and 75keV end with a current of 0.4mA. Focal spot: 0.6 x 0.6
- NaI (Tl) detector with 1.5" of diameter
- Electronics of measure with two channel to the analysis of two x-ray energy peak
- Personal computer Interface and connection by RS232
- Database organized by date, patient and type of survey
- Survey scan: ***Spine*** (front-back and lateral), ***Forearm***, ***Femur***
- Show of the map with the possibility to select horizontal and oblique interest areas
- Software to acquire and elaborate bone density data. WMOC is projected for Microsoft Windows® 9x is 2000 year bug free
- Quality control on-line with automatic registration of the internal standard measurement for each survey made. Possibility to store the results obtained by the equipment standard and control of them by the C.V.%
- Auto-calibration with verification of the internal reference standard before any survey and auto-centering of the x-ray energetic peak
- Database: possibility to compare data inserted into database with reference population, possibility to increase of normality curves by means of insertion of own production, auto-representation of the data expressed in term average value, T-Score and Z-Score, per cent variation respect to the reference population, graph to compare the results with the reference population
- Accessories for patient positioning during the survey
- Calibration Phantoms (1 for Spine end 1 for forearm)

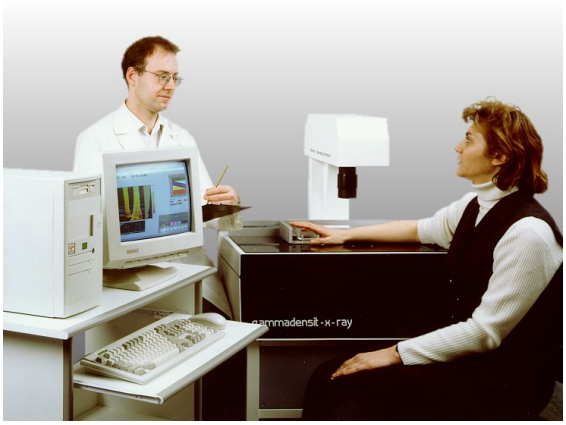
Technical Specification

- Storage and elaboration of survey per day: more than 30
- Patient exposure: less than 5 μS by using standard scan time:
- 6 min. Spine and Femur precision better than 1% pixel dim. 1.5 x 3 mm
- 4 min. Forearm precision better than 1% pixel dim. 0.8 x 1.6 mm
- 12 min. for vertebral morphometry analysis. valuation of the trend to become cuneiform of each lumbar or dorsal vertebra
- Operator exposure: none for a distance more than 1 meter from the patient
- Dimension (W,H,D) cm. 190 (78 in storage condition) x 136 x 125, weight about 150 Kg
- Electric characteristic: single phase, supply voltage: 220V, frequency 50 Hz, power absorption: 400W

NOTE: The instrument needs a PC compatible with Windows® 9x installed

Version nr.1 scintibloc
Version nr.3 scintibloc

Gammadensit DEXA



DEXA system for bone mineral density measurement of the forearm composed by:

- Movement mechanics controlled by personal computer that is connected on-line to the measurement device. The system is able to scan a surface equal to 9x15 cm^2 of area
- Selection of trace point of the start scan by means of a graduated scale applied on the work top of the instrument
- Scan field defined by the personal computer keyboard with a precision of half centimeter
- Ultra stable X-Ray Tube with dual photon emission and "Cerium" filter able to produce a thin x-ray beam (pencil-beam) with double energy of 30keV and 70keV end with a current of 0.5mA
- NaI (Tl) detector
- Electronics of measure with two channel to the analysis of two x-ray energy peak
- Personal computer Interface and connection by RS232
- Database organized by date, patient and type of survey
- Show of the map with the possibility to select horizontal and oblique interest areas
- Software to acquire and elaborate bone density data. WMOC is projected for Microsoft Windows® 9x is 2000 year bug free
- Quality control on-line with automatic registration of the internal standard measurement for each survey made. Possibility to store the results obtained by the equipment standard and control of them by the C.V.%
- Auto-calibration with verification of the internal reference standard before any survey and auto-centering of the x-ray energetic peak
- Database: possibility to compare data inserted into database with reference population, possibility to increase of normality curves by means of insertion of own production, auto-representation of the data expressed in term average value, T-Score and Z-Score, per cent variation respect to the reference population, graph to compare the results with the reference population
- Calibration Phantom

Technical Specification

- Storage and elaboration of survey per day: more than 30
- Patient exposure: less than 5 μS by using standard scan time:
- 2÷5 min. Forearm precision better than 1%
- Operator exposure: none for a distance more than 1 meter from the patient
- Dimension (W,H,D) cm. 80 x 130 x 55, weight about 80 Kg
- Electric characteristic: single phase, supply voltage: 220V, frequency 50 Hz, power absorption: 400W

NOTE: The instrument needs a PC compatible with Windows® 9x installed

Tomogamma DEXA

DEXA system for bone mineral density measurement and computer tomography of the forearm composed by:

- Movement mechanics controlled by personal computer that is connected on-line to the measurement device. The system is able to scan a surface equal to 9x15 cm^2 of area ang 93° of angular
- Scan field defined by the personal computer keyboard with a precision of half centimeter
- Ultra stable X-Ray Tube with dual photon emission and "Cerium" filter able to produce a thin x-ray beam (pencil-beam) with double energy of 30keV and 70keV end with a current of 0.5mA
- NaI (Tl) detector
- Electronics of measure with two channel to the analysis of two x-ray energy peak
- Personal computer Interface and connection by RS232
- Database organized by date, patient and type of survey
- Survey scan: mineral density and tomography. Separation between cortical and trabecolar bone and evaluation of the density in g/cm^3
- Show of the map with the possibility to select horizontal and oblique interest areas
- Software to acquire and elaborate bone density data. WMOC is projected for Microsoft Windows® 9x is 2000 year bug free
- Quality control on-line with automatic registration of the internal standard measurement for each survey made. Possibility to store the results obtained by the equipment standard and control of them by the C.V.%
- Auto-calibration with verification of the internal reference standard before any survey and auto-centering of the x-ray energetic peak
- Database: possibility to compare data inserted into database with reference population, possibility to increase of normality curves by means of insertion of own production, auto-representation of the data expressed in term average value, T-Score and Z-Score, per cent variation respect to the reference population, graph to compare the results with the reference population
- Calibration Phantom

Technical Specification

- Storage and elaboration of survey per day: more than 30
- Patient exposure: less than 5 μS (Mineral Density survey) and 10 μS (Computer Tomography survey) by using standard scan time:
- 2 min. Forearm Mineral Density precision better than 1%
- 5 min. Forearm Computer Tomography precision better than 0.4%
- Operator exposure: none for a distance more than 1 meter from the patient
- Dimension (W,H,D) cm. 80 x 130 x 75, weight about 100 Kg
- Electric characteristic: single phase, supply voltage: 220V, frequency 50 Hz, power absorption: 400W

NOTE: The instrument needs a PC compatible with Windows® 9x installed