



l'acn
l'accessorio nucleare

l'acn - l'accessorio nucleare S.r.l
via 25 Aprile 9/13 - 20023 CERRO MAGGIORE MI (ITALY)
tel. +39 (0)331 420303 - fax +39 (0)331 420153
website: www.acn.it - email: acn@acn.it

Unigamma M

MULTIDETECTOR DEXA FAN BEAM BONE DENSITOMETER



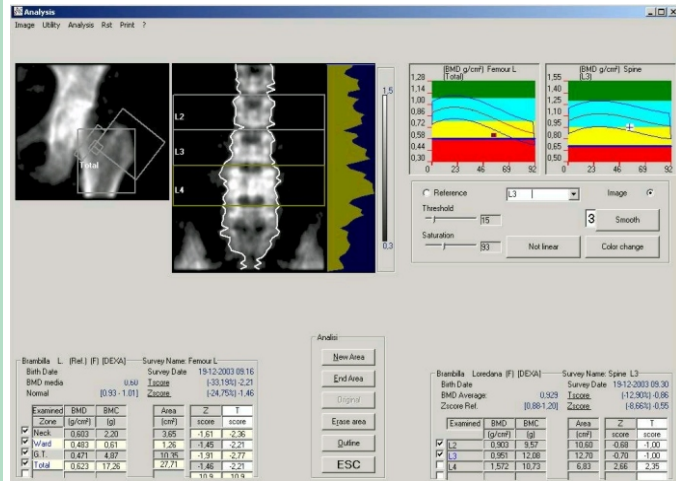
Unigamma M is the all-purpose dexa bone mineral densitometer produced by l'acn.

The small fan beam technology and the scalable architecture allow an optimal compromise between productivity and image quality, no matter how large is your patients throughput.

Unigamma M

Osteoporosis is an ever growing problem affecting millions of women and men worldwide. The healthcare costs associated with osteoporosis are staggering, and the effect on your patient's quality of life can be devastating.

But fortunately, osteoporosis is detectable and treatable. Testing is safe and non invasive so you can test for osteoporosis in your office.



l'acn

Over 25 years now l'acn from the very North of Italy has designed and supplied bone densitometry systems to customers worldwide.

R&D efforts focus on providing efficient clinical solutions in a competitive environment.

Bone Densitometry

For many years researchers and clinicians have been measuring bone density to monitor and manage osteoporosis and other bone diseases. The use of dual energy allows for the correction of soft tissue variations. Pencil beam DEXA systems offer maximum accuracy with minimal exposure, while fan beam systems offer short scan times. Only the Unigamma family of DEXA systems combines the best of both worlds: multiple pencil beams and a fan beam geometry.

The standard measurements like AP spine and Hip (for the elder population) with respectively scoliosis correction and automatic metal exclusion are standard.

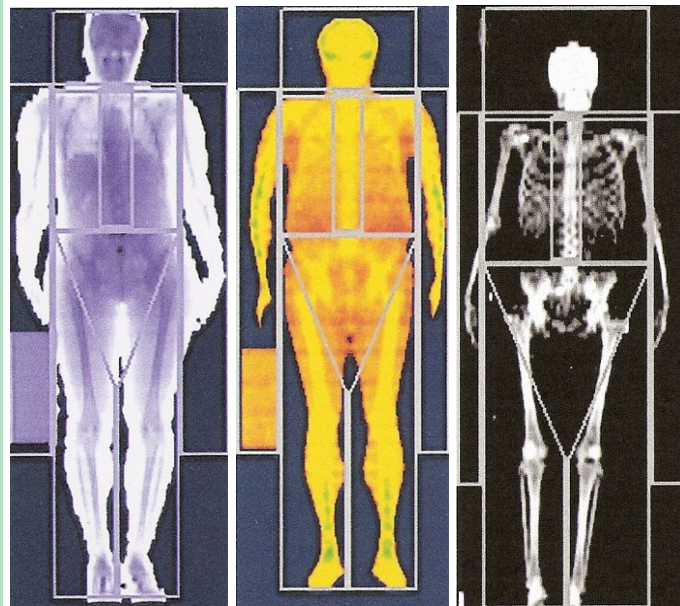
Body Composition Analysis:

By the "Bodycomposition" software Wholebody dexa scans can be analysed in order to calculate the percentage of bone, fat and lean tissue in of patient.

This application of the dexa methods is especially useful for dieticians, in sports medicine or for the study of rare diseases.

Calibration and Compatibility:

In order to allow comparison the results are expressed in BMD (g/cm²). The NHANES reference curves are included,



TYPICAL SCAN TIME

Unigamma M - 5 def. version:

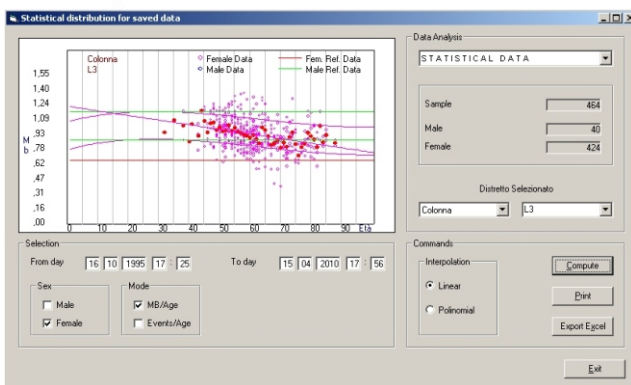
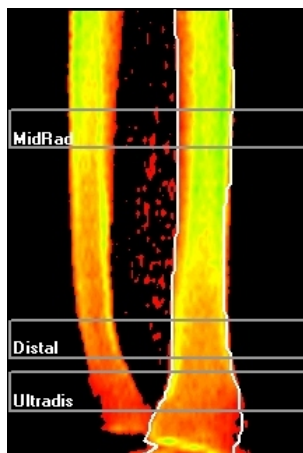
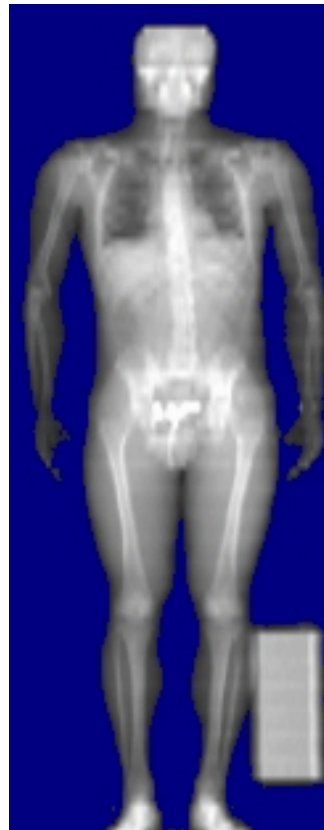
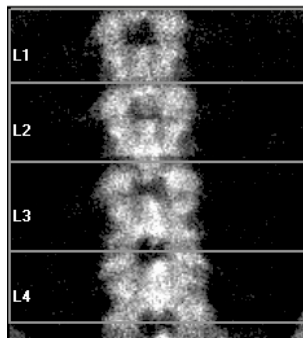
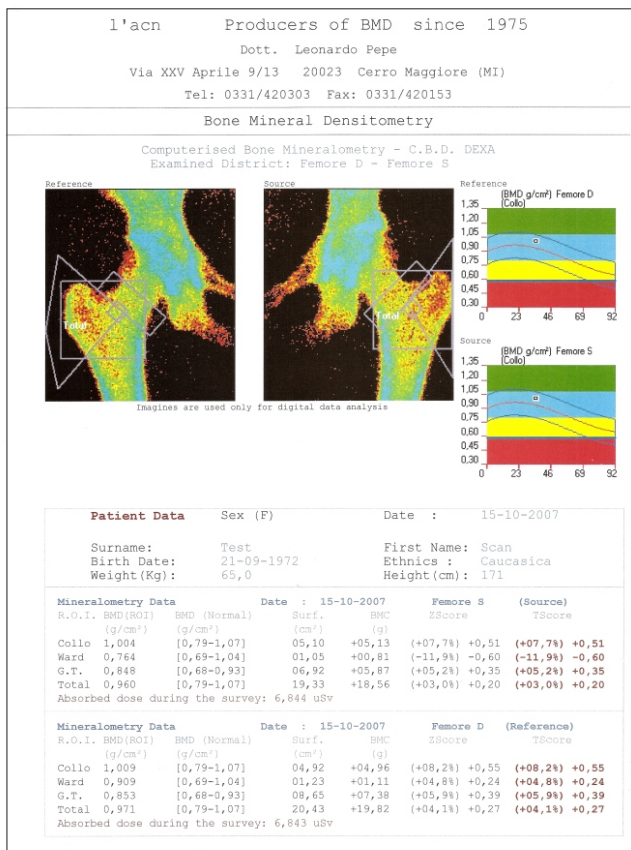
R.O.I.	PIXEL	SPEED	SCAN AREA	SCAN TIME
FEMUR	3 x 3 mm ²	40 mm/s	15 x 15 cm ²	30 s
SPINE	3 x 3 mm ²	40 mm/s	15 x 22 cm ²	40 s
TOTAL BODY	3 x 15 mm ²	60 mm/s	65 x 200 cm ²	3 min 40 s



Unigamma M

Multi Pencil Beams in Fan Beam geometry.

Finely collimated pencil beams (for 1, 3 or 5 detectors) ensure the lowest possible patient dose, while simultaneously allowing for fast scan times and optimal patient throughput. **l'acn** has employed its expertise to create a dependable and yet extremely versatile answer to the requirements of any customer, from the high throughput clinics to the small private doctor's practice.



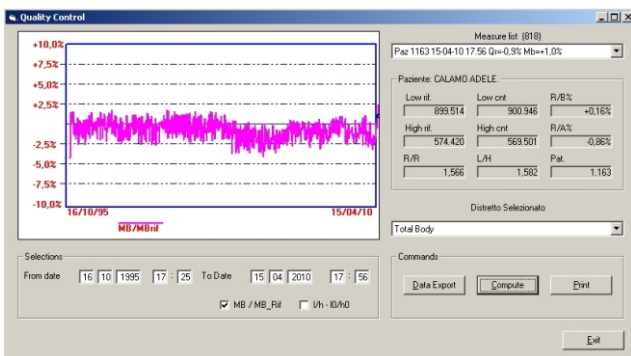
Quality control

Automatic daily and real-time Quality Control are implemented in the software, ensuring the maximum reliability of the results by reducing the possibility of human errors.

Quality control recordings can be consulted at anytime, as well as the statistical distribution of the results, which can be compared to expect normality trend.

Service and Maintenance

A worldwide network of qualified service engineer is on the field, to ensure the promptest after sales service. Please contact our local distributor for any technical issue..

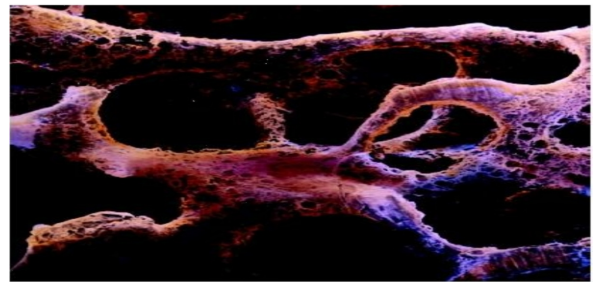


l'acn
l'accessorio nucleare

Unigamma M

TECHNICAL SPECIFICATIONS

Principle:	DEXA - small fan beam
Patient dose:	typ. 3 uSv for an AP spine scan
Generator:	HF, 86 keV at 0.4 mA (nominal)
Cooling:	Oil, convection
Energies:	47 and 70 keV
Separation:	K-edge samarium filtered
Filtration:	min. 22 mm Al eq.
Linearity range:	0 - 1500 mg/sqcm
Precision:	Approx. 1%
Accuracy:	Better than 1%
Calibration:	Compatible with industry standards
Beam size:	2 mm effective diameter
Scan time:	typ AP spine 35 sec (5 detectors)
Results:	BMD ,BMD ,Area, T-Score, Z-score
Bone edges:	Automatic detection
Dimensions:	2400*1300*1700 mm (l*w*h)
Scan area:	Max. 200 x 65 sqcm
Weight:	250 kg
PC system:	any with Rs232 or USB port, LED monitor, color printer
Software:	Windows XP/7/8 compatible European Reference Base/NHANES Trending facilities Combined scan and patient file Automated quality control Data Export capabilities Dicom 3.0 compliant (optional)
Power:	100 - 230 VAC, 50 or 60 Hz
Temperature:	15 to 27 °C
Humidity:	10 to 80 % non-condensing
Analysis:	AP Spine (also scoliotic) Hip Forearm Wholebody Prosthesis exclusion automatic (femur) Lateral spine (option) Hand (option) Pediatric wholebody Soft tissue analysis (Bodycomposition) Pediatric spine and scoliotic (option) Reference values T-score and Z-score Automatic quality control Statistical analysis on database results



CLINICAL INDICATIONS

- * Premenopausal ovarian dysfunction
- * Bilateral oophorectomy
- * Early natural menopause
- * Natural menopause
- * Renal disease
- * Chronic liver disease
- * Long term use of corticosteroids
- * Malabsorption syndromes
- * Prolonged immobility
- * Rheumatoid arthritis
- * Hyperparathyroidism
- * Cushing syndrome
- * Hypothyroidism
- * Monitoring treatment effect
- * Gonadal dysfunction
- * Family history of osteoporosis
- * Diabetes
- * Fracture after minimal trauma

(*) Specifications may be subject to modification without notice

l'acn - l'accessorio nucleare S.r.l

via 25 Aprile 9/13 - 20023 CERRO MAGGIORE MI (ITALY)

tel. +39 (0)331 420303 - fax +39 (0)331 420153

website: www.acn.it - email: acn@acn.it