

DTX-200[®]

Office based osteoporosis diagnosis

Osteometer MediTech specializes in equipment for office based osteoporosis diagnosis. The **DTX-200** is a mobile unit that takes up a minimal amount of space, and it can easily be rolled away when not in use. The **DTX-200** enables the doctor to perform bone density measurements in a matter of minutes, while the patient remains fully clothed.

Dedicated bone densitometer

The **DTX-200** is a unique x-ray densitometer for the assessment of bone density in the distal part of the forearm. The forearm is an excellent site because the forearm is very representative of the total body bone mass. With the **DTX-200** you have an easy and cost effective method with a throughput of up to 50 examinations per working day.

Reliable performance

The **DTX-200** assesses forearm bone density with optimized precision and accuracy. One of the unique features of the **DTX-200** is the automatic identification of the 8 mm distance between ulna and radius. This ensures that the same area is assessed every time. The excellent in vivo accuracy (<3%) and in vivo precision (<1%) makes **DTX-200** highly suitable for assessment of bone density and follow-up.

Instant operation

The **DTX-200** is a truly automated system. Every calibration, positioning, assessment and calculation is performed automatically, minimizing operator errors. The straight forward procedures together with minimal operator intervention make the **DTX-200** instantly operational. The extensive database allows comparison with age-matched peers (Z-score) and premenopausal peers (T-score).

Fast response

The **DTX-200** can be placed in your examination room without special installation and shielding requirements. The outstanding calibration system makes it possible to finish an examination within 5 minutes. Due to its integrated, dynamic approach, the **DTX-200** provides the facility to give the answer to your patient today.

Built to meet the challenge

The **DTX-200** goes beyond bone mass measurement and identifies fast bone losers through a unique software program that is used to calculate the rate of the postmenopausal bone loss. The rate of bone loss can be estimated by measuring a combination of biochemical markers reflecting bone turnover. By combining the results of the bone mass measurement and the bone loss estimation, it is possible to predict the future risk of developing osteoporosis in healthy postmenopausal women. The **DTX-200** has won world-wide recognition for enabling fast, easy, reliable, inexpensive and cost effective assessment as well as follow-up of bone density.



Features of the DTX-200

- Fully automatic calculation
- In vivo precision (<1%)
- In vivo accuracy (<3%)
- Unique bone loss estimation
- Assessment of future risk
- Fast scan time and set-up
- Mobile
- Operator independent
- No special shielding requirements

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Product specifications

X-ray System:	55 kV, 300 μ A
Energy Separation:	K-Edge filtration
Detection System:	Solid state dual energy sandwich detector
Calibration System:	Line by line internal reference calibration
Scanning Method:	Rectilinear (100 mm x 100 mm)
Scan Resolution:	0.4 mm x 0.4 mm
Scanning Sites:	<u>new Region of Interest (nROI)</u> The ultra-distal sites of the radius and ulna Location: Proximal from endplate of radius and ulna, 65% trabecular bone <u>8 mm Distal</u> The distal site of radius and ulna Location: 8 mm radius/ulna distance Size: 24 mm in proximal direction, 13% trabecular bone
Effective dose:	0.1 μ Sv per scan
Leakage Radiation:	Less than 5 μ Sv per hour measured 5 cm from sides of cabinet
Scatter Radiation:	Less than 0.25 μ Sv per hour measured 1 m from top of scanner
External Shielding:	None required
Size and Weight:	31" (H), 24" (L), 12" (W), 114 lbs.
Power Requirements:	100-240V~, 50-60 Hz, 125 VA
Room operating Temp:	59-86°F
In vivo Precision:	<1%
In vivo Accuracy:	<3%
Patient Dose:	Skin dose on forearm: 0.2 mGy per scan



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Product- and quality-assurance system implemented in accordance with Medical Directive 93/42/EEC. Osteometer MediTech, Inc. is certified in accordance with ISO 13485:2003