

# DEABD-3000/ABD-3000+ Bone Densitometer (Ultrasound)



**ABD-3000**



**ABD-3000+**

## Working Principle And Scope

Working principle: The ultrasound probe transmits ultrasound waves to the ultrasound probe, and the ultrasound wave penetrates the heel of the tested person to reach another ultrasound transducer. Because the ultrasound wave is transmitted through different bones and the ultrasound velocity and attenuation are different, through calculate SOS, BUA, T-Score and Z-Score, and use screen or printer to display. Finally, the doctor can make conclusion according to the measure data.

Working scope: Ultrasound was used to measure calcaneus.

## Specification

- |                           |                                      |
|---------------------------|--------------------------------------|
| 1. Measurement parameters | QUS                                  |
| 2. Measurement parts      | Calcaneal Bone                       |
| 3. Measurement Time       | 15 seconds - 25 seconds              |
| 4. Ultrasound Parameter   | BUA (Broadband Ultrasound Attention) |
| 5. SOS (Speed of Sound)   |                                      |

6. BMD/BQI (Calcaneal Bone Parameters)
7. Diagnosing Parameter                      SOS, BUA, BQI, BMI, T-Score, Z-Score
8. Operating temperature                      17-36°C
9. Humidity                                        0-80%R.H
10. Electrical Power Requirement:        AC 100-240V,50/60HZ

## Host Machine Component

NAME	MAIN PURPOSE
Base and cover	The structure and appearance of equipment
Switching power and control panel	Hardware circuit, signal acquisition, processing, interface
Ultrasound probe	Transmitting and receiving ultrasound signals
Oil balloon	The internal filling oil ensure ultrasound coupling
Leg plate (foot plate)	Fix leg position
Foot pedal	Fix foot position
Power indicator	Showing the working state of the equipment

## Comparison Table

MODEL	ABD-3000	ABD-3000+
Probe	Fixed	Auto Adjustment
Built-in printer	No	Yes
USB Interface	One	Two
Charging port	No	Yes
Subject Group	Adult	Adult+Child
Touch Panel computer	No	Yes

# DEABD-7000/ABD7000+ Bone Densitometer (Ultrasound)



## Specifications

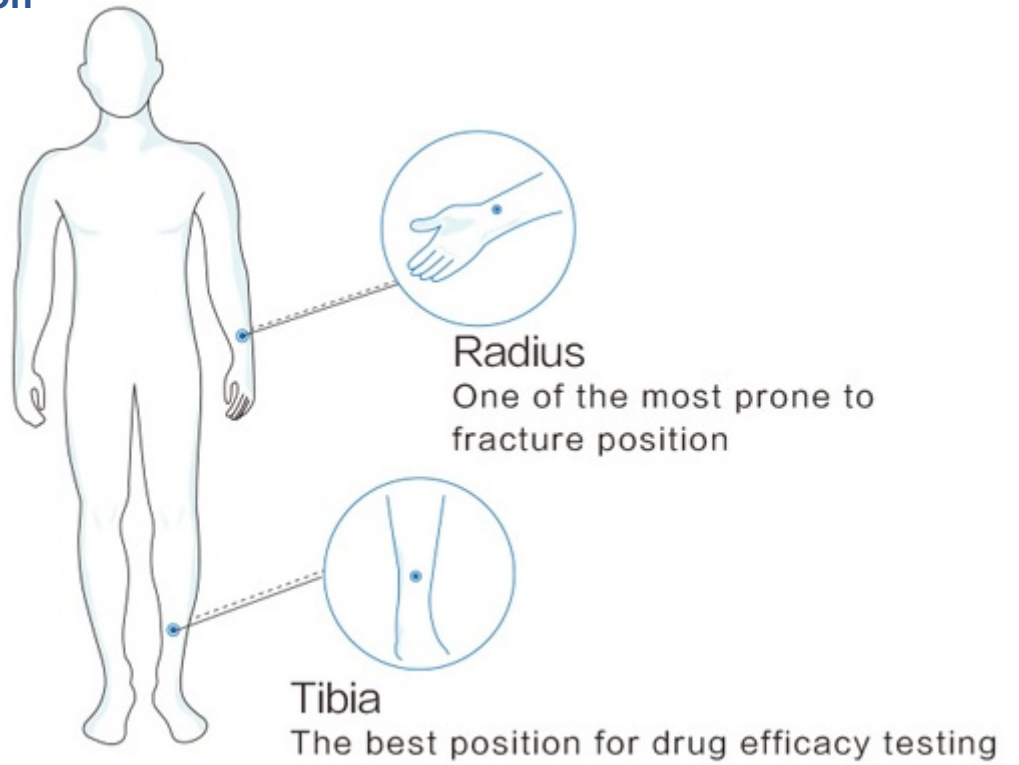
The machine use the ultrasound to measure the Radius and Tibia bone density, the measurement process is no wound, especially suitable for pregnant women, children and other special populations.

The machine suitable for all kinds of medical and physical examination institutions, it can provide detailed measurement date for the elderly osteoporosis and the development of children bone density.

## Parameter Table

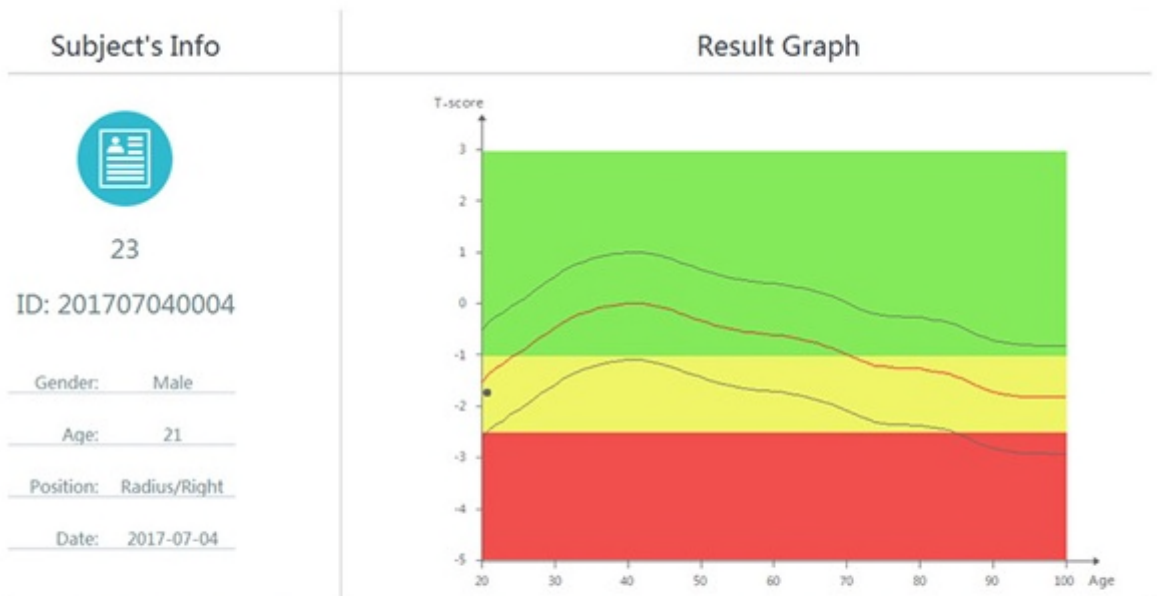
MODEL	ABD-7000	ABD-7000+
Measurement Theory	Critical Angle Side Wave Theory	
Ultrasound Parameters	SOS, T-score	
Other Parameters	T-score, Z-score, Skeletal age, BQI, RRF EOA	
Probe Frequency	1MHZ±15%	
Measure Time	Single ≤ 25s, Repetition ≤ 75s	
Operating system	Windows XP or above	
Operating temperature	5-40°C	
Operating humidity	Relative humidity ≤ 80%	
Power requirements	AC220±10%, 50Hz±1Hz	
Measure Position	Radius	Radius + Tibia

## Measurement Position



( Measurement position: Radius or Tibia )

## Measurement Result



### Result

SOS  
**3934**

T-score  
**-1.8**

Z-score  
**-0.4**

Bone Age  
**20**