

# Technical Data



# PEGASUS SMART

## Technical Data

# PEGASUS SMART

## Bone Densitometer

### Specifications

Quantitative Ultrasound Device  
For osteoporosis diagnostic and bone state evaluation

#### Transducers

Type	Broadband ultrasound probes
Mean Frequency	1.6 MHz
Active Diameter	12.7 mm
Bandwidth	> 65 %

#### Display

Type	LCD Screen
Resolution	32 x 160 Pixels (2 lines of 20 characters)
Dimensions	74 x 25 mm

#### Flat Keyboard

Number of boutons	5
STOP emergency red button	
Easy interface	

#### Memory

Examination storage	Up to 200 analysis in Portable mode
	Hard Disk capacity in PC mode

#### Options and characteristics

Real time clock
Foot holder for better accuracy
Easy to transport with built-in carrying handle
Fast examination
Optional suitcase for easy and safe transport ( upon request, please ask for the quotation)



**Suitcase**



**Foot holder**

# Technical Data

## PEGASUS SMART Bone Densitometer

### Analysis

Usable in **Portable Mode** or in **PC Mode**

#### Examination

Location	Measurement at the calcaneus (heel)
Type	Measurement in transmission and reflexion mode
Scan Time	1 sec
Enhanced results with ethnical origin consideration	
Daily autocalibration with a phantom	

#### Parameters

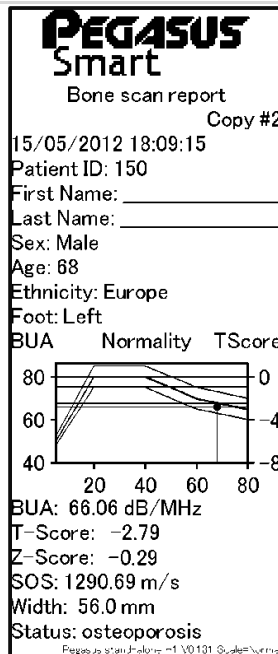
Broadband Ultrasound Attenuation (BUA)	
Speed of Sound (SOS)	
Young adult mean standard variation (T-Score)	
Age-matched mean standard variation (Z-Score)	

#### Characteristics of analysis

Windows <sup>®</sup> based software in desktop mode	
Ultrasonic gel coupling	
Frequency	200KHz-600KHz

#### Patient Report in portable mode

The ticket contains the following information	foot ( right or left ) , BUA, T-Score, Z-Score, SOS, Width
Possibility to print duplicate ticket (for patient and for doctor)	h
Possibility to print registered examination in one time	



# PEGASUS SMART

## Bone Densitometer

### Patient Report in PC mode

B&W ticket with advanced information or full A4 report:

- Patient information: Patient ID, Sex, Age, Ethnicity, foot, BUA, T-Score, Z-Score, SOS, Width
- Results: BUA, T-Score, Z-Score, SOS, Width
- reference curve,
- space for comments

After use in portable mode it is possible to enter patients' name and reprint on the full A4 report or on the ticket

We can personalize the full A4 report according to the health center

Preliminary report sample

### ULTRASOUND BONE DENSITOMETRY REPORT

Clinique de la foret verte  
127, rue des plantes en pot  
34470 Pérols

Phone : 04 67 50 49 00  
Fax : 04 67 50 49 09

Date : 18 / 11 / 1999  
Time : 10:43:23

Operator :  
Prescriber :

#### Raw Signal

#### Patient Data

ID : 010203  
 Lastname : Dupont  
 Firstname : Martine  
 Sex : Female  
 Date of Birth : 5/12/1969  
 Age : 34 years  
 Height : 1.65 m  
 Weight : 70.0 Kg  
 Foot : Right  
 Foot Length : 39  
 Foot thickness : 48.7 mm  
 Examination number : 2/2

#### Normality Curve

#### Result Data

BUA = 50.16 dB/MHz    SOS = 1309.5 m/s  
 T-Score = -3.04    STI = 17.3  
 Z-Score = -3.02

#### Reference Data

BUA Young Adult = 67.04 dB/MHz  
 BUA Age Matched = 66.95 dB/MHz  
 BUA Osteopenia = 61.48 dB/MHz  
 BUA Osteoporosis = 53.15 dB/MHz

#### Region of Interest

#### Pathology Data

Osteoporosis

#### Comments

Software version 1.40

## Technical Data

# PEGASUS SMART

## Bone Densitometer

### Additional Functionality

Paediatric functionality: print on ticket and in full report when connected to a PC  
 Calculation of BUA, SOS, Width, Z-score  
 Similar print than for adult mode

## Software

New user-friendly interface

### Software tools

Reference population (reference normality curve)

Patient medical history

Print out report

Patient examinations follow up : possibility to retrieve the registered examination performed in portable mode when the unit is connected to a PC in order to make patient follow up.

Follow up report

Patient results storage: storage of examination performed in portable mode when connected to a computer

Multi-language software: possibility to translate in your own language

Help menu

### Analysis Storage

External USB flash drive or network

### Connectivity

DICOM compatibility

Push & print



# PEGASUS SMART

## Bone Densitometer

### Computer parameters

#### Minimal computer configuration

Operating system	Windows XP, sp3, Vista or Seven
Processor	Intel Atom
RAM	1 GB
Hard disk	Windows minimum requirements
Archiving	Hard disk or USB flash drive
Monitor	SVGA resolution 1024x600
Printer	Color
Connectivity	Computer USB port, Laptop

### Environmental data and electrical specifications

#### Environmental data

Operating temperature	18 to 27 °C (64 to 80 °F)
Operating humidity	10% - 80% (without condensation)
Pressure	0.8 – 1.2 Bar
Storage temperature	10 to 40°C (50 to 104°F)
Storage humidity	10% - 80% (without condensation)

#### Electrical specifications

Voltage-Current	90 to 250 VAC - 2 A
Frequency	50/60 Hz
Power consumption	60 W

## Technical Data

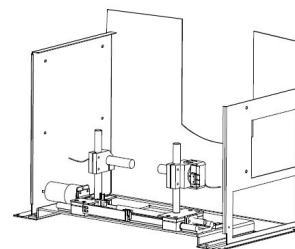
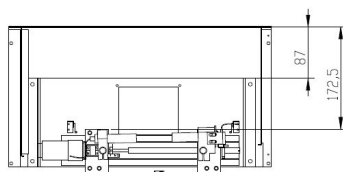
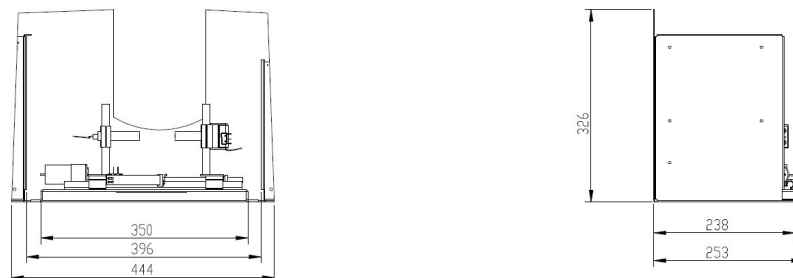
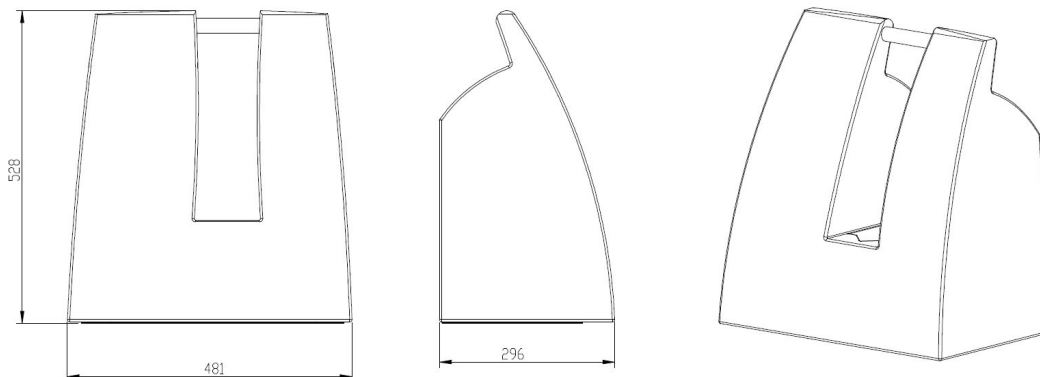
# PEGASUS SMART

Bone Densitometer

## Physical description

### Dimensions and weight

Dimensions	L 48 x W 30 x H 53 cm (L 18" x W 11" x H 22")
Weight	9.8 kg



PS: THESE INFORMATION MAY BE CHANGED OR UPGRADED WITHOUT PRIOR NOTICE