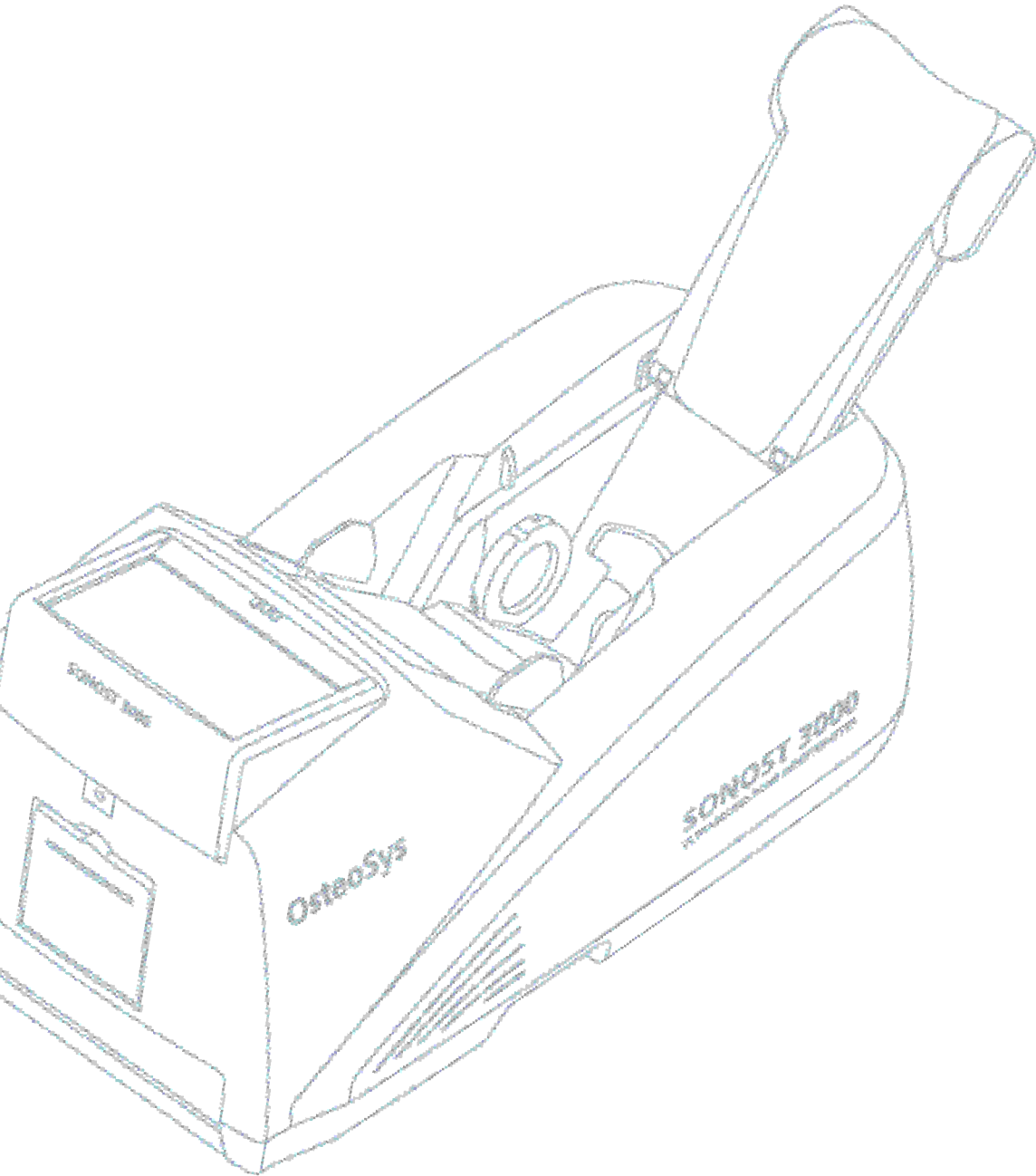


SONOST-3000

The stand-alone QUS bone densitometry

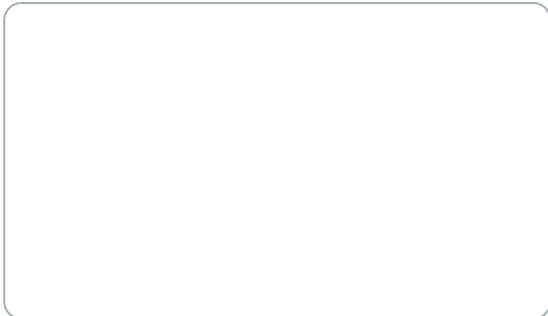


SONOST-3000 is a stand-alone device,
embedded PC, touch screen with thermal printer

OsteoSys

OsteoSys

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The stand-alone QUS bone densitometry

SONOST-3000 is a stand-alone device, embedded PC, touch screen with thermal printer

SONOST-3000 offers comfortable and easy-to-handle measurement through its high-sensitivity touch screen without the need for an exterior monitor or a keyboard. Moreover the built-in thermal printer prints out report cards in a simple format to cut down on maintenance costs. In addition, a monitor, keyboard, a mouse, or a printer can be installed if required for some situations. The semi-permanent probe with its high-elasticity is comfortable on the body and has also contributed to reducing maintenance costs, minimized reproducibility errors due to changes in temperature, and is automatically positioned at the both ends of the calcaneus by the precise pressure sensor.

QUS : Quantitative UltraSound

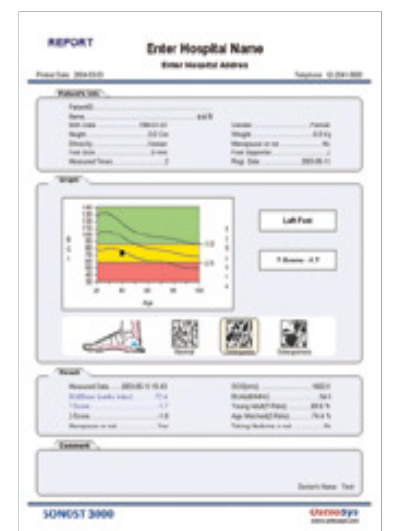
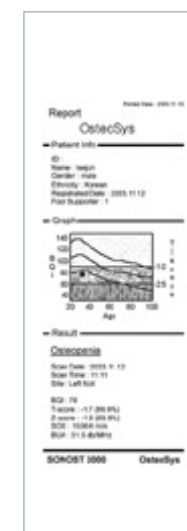
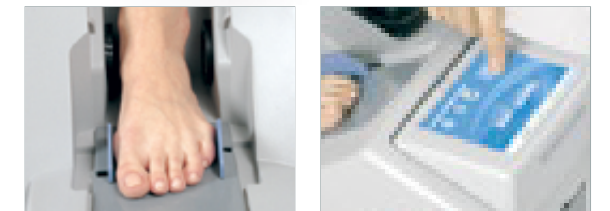
QUS is a method to measure the bone density of the peripheral skeletal system and uses the heel area. The heel was chosen because the heel bone is a wide calcaneus bone between relatively flat sides and it is easy to apply the transmission measurement to this area. The ultrasound pulse that passes through the bones is significantly attenuated with the signals diffusing and which is also absorbed by the spongy tissues.

Features

- Waterless mode
- Portable
- Smart precision (B.Q.I. : 1.5 (C.V. %))
- Built-in computer and printer
- Touch screen : color TFT LCD monitor
- Quick measuring speed (15 sec.)
- Automatic positioning probes
- Optional-Keyboard, mouse, external monitor & printer
- 10,000 patient's data storage

Technical specifications

System	
Measurement method	QUS (Quantitative UltraSound)
Measurement site	Calcaneus
Performance	
Measurement time	Min. 15 sec.
Measurement	Estimated heel BMD and Bone Quality Index (BQI) obtained from measured Broadband Ultrasound Attenuation (BUA) and Speed Of Sound (SOS)
Estimated index in vivo	SOS (C.V.%) BUA (C.V.%) BQI (C.V.%)
	0.2 1.5 1.5
QC check	Daily QC phantom
Result display	Measurements are displayed as raw data, T-score, Z-score and % expected and graphically plotted against normative data curves
Operating temperature range	17 ~ 36°C
Operating humidity range	20 ~ 80%
Probes adjustment	Automatic
Storage capacity	10,000 patients data
Coupling method	Gel coupled
Power input	100 ~ 240 VAC. 50 ~ 60 Hz
PC characteristic	
Operation system	Windows CE
Display	7 inch TFT LCD (65,553 colors)
User interface	Touch screen, USB keyboard (Optional), USB mouse (Optional)
Printer	Internal : Thermal printer, External (Optional) : Language type-PCL3
Dimensions and weight	
Dimension	300 × 620 × 390 mm
Weight	12 kg



Standard

Option

