TANITA®

Monitoring Your Health

Prevent-Obesity

VISCAN™

MEASURES VISCERAL AND TRUNK FAT IN SECONDS

VISCAN™ ACCURATE MEASUREMENTS IN SECONDS

High levels of visceral fat and trunk fat are scientifically proven to be linked to lifestyle diseases such as metabolic syndrome, type 2 diabetes and other lifestyle diseases however until now have been difficult and expensive to measure, especially in larger research studies or routine clinical practice.

Tanita has pioneered VISCAN, an innovative concept which directly measures visceral trunk fat and waist circumference using the latest Tanita BIA technology.

VISCAN™ directly measures the abdominal region and instantly shows readings[1] for:

- Visceral fat level on a scale of 1 – 59 (0.5 graduation)
- Assesses visceral fat level using a 6-step bar-graph display from standard to excessive
- Trunk fat percentage: on a scale of 5.0 – 75.0% (0.1% graduation)
- Assesses trunk fat percentage: using a 9- step bar-graph display from low to high
- Estimated waist circumference: 50 – 130 cm (1 cm graduation)
- "Over 130cm Mode" allows measurement of subjects with a waist circumference of 130cm or greater.

[1] Assessment of measurements are shown for subjects aged 18 years and above. For subjects under 18 years, measurements only are shown and can be used as reference data.

HOW VISCAN™ WORKS

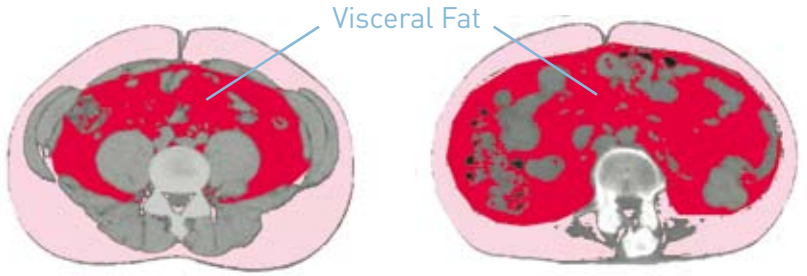
A cleverly designed 'electrode belt' is placed on the bare midriff of the subject. The belt then uses Tanita Dual Frequency BIA technology to take the measurement and passes the reading via infa red to the base unit in just 30 seconds.

HELPING YOU ACHIEVE RESULTS

VISCAN is specifically designed for a wide range of needs from large scale research projects to routine clinical practice.

- Convenient to work with disabled, critically ill and elderly patients
- Measurements are taken in under 30 seconds
- Easy to set up and use – no training required
- Highly accurate and repeatable results
- Minimal or no personal contact
- Lightweight and portable – supplied with handy carry/storage case

The diagrams below show a greater accumulation of visceral fat in an individual with a spinal-cord-injury compared to a healthy person. By using VISCAN the measurement error compared to tape measurement of waist circumference can be substantially reduced.



Male: Healthy subject (32 years old)
BMI 23.7 Waist circumference 84.0cm
Visceral fat area 97.7cm^2

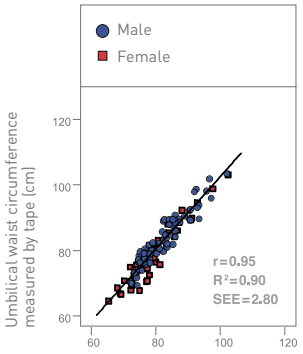
Male: Spinal-cord injury victim (35 years old)
BMI 23.7 Waist circumference 82.2cm
Visceral fat area 211.8cm^2

TANITA ACCURACY GUARANTEED

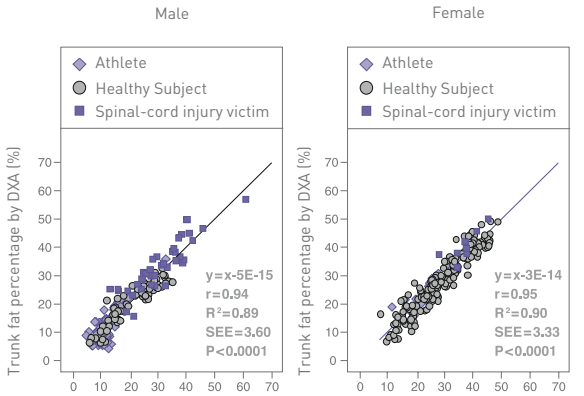
VISCAN estimates the waist circumference based on the fact that umbilical waist circumference (abdominal circumference) measured by tape is highly correlated with abdomen width. The positioning laser and sensors allow high reproducibility and reliability.

High levels of visceral fat and trunk fat are said to be closely correlated to the incidence of lifestyle-related diseases.
They are statistically estimated using the abdominal BIA method and by analyzing the data obtained from the X-ray CT and DXA method (Double Energy X-ray Absorptiometry).

Correlation between "Umbilical waist circumference measured by tape" and "Estimated waist circumference measured by VISCAN"



Correlation between "Trunk fat percentage by DXA" and "Trunk fat percentage by Abdominal BIA method"



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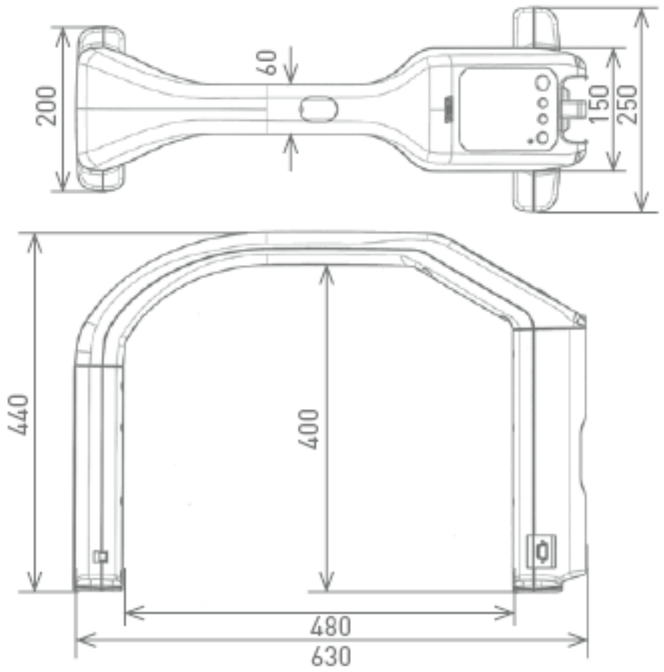
VISCAN™ SPECIFICATIONS

Base unit
Measurement method: near-infrared reflectance method
Measurement span: 20 – 48 cm
Battery: nickel metal-hydride battery
Power source: AC adapter: input 100 – 240 V; output 12 V, 2 A
Weight 2.6kg
External interface RS232C output (D-sub 9-pin female connector)
Operating temperature limit (storage temperature limit)
0 – 35°CĐ-10 – 60°CĐ

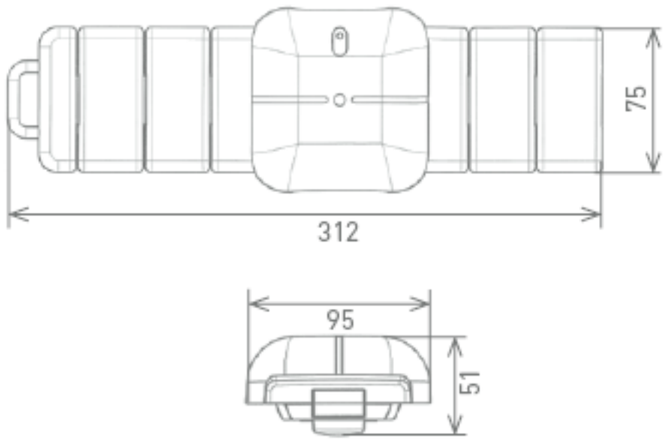
Impedance Belt
Measurement method: 4-electrode type
Measurement frequency: 6.25 kHz, 50 kHz
Measurement range: 5 –100 Ω
Power source: DC 6 V, AAA alkaline dry cell x 4
Weight: 0.5kg

Positioning laser
Light-emitting unit: visible-light semiconductor laser
Laser wavelength: 650 nm (red light)
Laser output: less than 1 mW
Beam size: at 200 mm distance, line length 200 mm or over, line width less than 2 mm, point (approx. ø 1.5 mm) in centrosphere ± 5 mm
Grade: Class 2M

Base Unit Dimensions (mm)



Impedance Belt Dimensions (mm)



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