

Professional Product Guide

The global leader in health monitoring



TANITA is a Japanese company that manufactures and distributes precision weighing and body composition equipment worldwide. Our products are widely used within the scientific research, healthcare, fitness industries and more recently experiencing rapid growth within the weight management, pharmacy and occupational health markets.

Tanita is the only manufacturer producing precision weighing and body composition devices for both the professional/medical field as for home usage.



WORLD No.1 BIA BRAND





Why Tanita Bioelectrical Impedance Analysis technology is the most accurate

Highest levels of precision and clinical accuracy.

The original prediction equations used in Tanita software were devised by world-renowned body composition expert Professor Steven Heymsfield and his research team at St Luke's Roosevelt Hospital, Columbia University, New York. Extensive independent research has proven that the accurate prediction of an individual's body composition can only be determined if a range of parameters are included in an algorithm, such as gender, age and height and weight.

Trusted by experts for clinical excellence.

Tanita BIA technology has been more extensively validated against alternative body composition techniques than any other company and the findings have been published in international medical journals. In addition, Tanita monitors have been used in hundreds of independent research studies worldwide. Tanita is regarded by the scientific community as the gold standard in BIA technology and the Tanita Medical Advisory Board ensures Tanita remains at the forefront of scientific advances. For more information on our extensive scientific publications and validation visit:

https://tanita.eu/tanita-academy/for-professionals/the-science

Ground breaking advances in research.

Tanita continually invests in numerous research projects that focus on enhancing understanding of key health and fitness issues, including areas such as childhood obesity, optimising physical performance and sarcopenia in the elderly. Our aim is to work with experts to develop tools and technologies to assist all healthcare and sports professionals in providing the best possible services and to help people enjoy healthier lives.

Repeatability of measurements through precision weighing.

Precise weight measurements are essential for calculating accurate body composition measurements. Tanita prides itself on manufacturing highly accurate weighing mechanisms in both its home use and professional models. All Tanita medically approved professional monitors have been awarded NAWI Certification as well MDD Class IIa, FDA and CE Approval ensuring the highest standards are met.

Sound quality through robust construction.

Tanita has grown through continuous product innovation and a commitment to maintaining the highest manufacturing quality standards. The company operates award-winning manufacturing facilities in Japan and China and all Tanita medical products meet strict international quality standards and are independently quality-controlled.





Validation

National and international regulatory standards continue to evolve and become more stringent. Medical devices are also becoming smaller and more complex in design, using advanced, engineered materials. This makes the process of validation and verification even more important—not only to comply with regulations, but also design the highest-quality part and production process. The result is better repeatability, fewer mistakes, less rework and redesign, faster time to market, improved competitiveness, and lower costs.

Validation is the process of making sure that you have objective evidence that user needs and intended uses are met. It is usually done by tests, inspections, and in some cases analysis. However, the target of the validation is to make sure the user needs are met in a medical device that consistently provides the intended medical benefit in actual-use conditions. Verification is typically making sure that you have objective evidence that specified requirements are met. It is usually done by tests, inspections, and in some cases analysis as well.

Tanita's professional body composition monitors have been validated.

Sarcopenic obesity, a pathological state with excess fat

increasingly being recognized as a phenotype associated with adverse clinical outcomes.

To answer the question: how does 8-electrode mult nent bioimpedance analysis (BIA; MC780 and MC980) pare to dual-energy x-ray absorptiometry (DXA) as the ence for estimating SM? Similarly, how well do the BI

Methods

Appendicular lean soft tissue (LST, a measure of SM; arm, leg, and total) was measured by DXA (GE, iDXA) and comp predicted SM by the two BIA systems, MC-780 and MC-980 (Tanita Corp, Tokyo, Japan) in 130 healthy men and women ag

%body fat measured with multicomponent models (Wang [W]and Lohman [L]) as the reference were compared to BIA results. 4-component models: body volume by Bod Pod; totabody water by deuterium dilution; and bone mineral mass by

that separately captures each arm and leg along with trunk and right and left-body electrical properties.

Both BIA systems are based on an 8-electrode confi

Subject Characteristics. 68 F, 62 M; 4 Asian, 27 African American, 97 Caucasians, 2 Other. Age (X±SD), 34±18.6 yrs; 22 <age 18 yrs. Height 167.6±13.6 cm; Weight 78.9±22.8 kg

Validation papers are available on request.



Validation studies

Tanita BIA technology: A scientific overview of methods and accuracy

Tanita BIA technology was first introduced in 1992. Since then we have strived to establish the most accurate technology and will always look for ways and methods to improve accuracy through dedicated research and development.

The Tanita algorithm is the cornerstone of precision body composition measurements in different body types, ages and gender. This has been repeatedly shown in independent scientific publications from researchers and clinicians worldwide.

There are various parameters within the algorithm to ensure the highest accuracy. These include AGE, GENDER and ETHNICITY. By incorporating these parameters, Tanita BIA technology can provide more consistent and reliable body composition measurements for anyone who steps on.

These factors are incorporated into most BIA technology manufacturers within the medical and research fields and has proven to be the foundation of strong validation. This is shown in scientific publications and highlights the importance of including AGE, GENDER and ETHNICITY when calculating body composition of individuals.

In addition, Tanita has developed algorithms for adults with a higher level of physical activity – athlete mode. This feature allows higher accuracy of assessing individuals muscle mass.

Recent publications showing the importance of incorporating the different parameters in the scientific literature:

AGE and GENDER

The following papers highlight the importance of incorporating age and gender into BIA technology algorithms and the impact on accuracy when they are not included:

- Völgyi E, Tylavsky FA, Lyytikäinen A, Suominen H, Alén M, Cheng S.
 Assessing body composition with DXA and bioimpedance: effects of obesity, physical activity, and age. Obesity 2008;16(3):700-5.
 - **Conclusion:** Compared to DXA, both BIA devices provided on average 2-6% lower values for FM% in normal BMI men, in women in all BMI categories, and in both genders in both HPA and LPA groups. In obese men, the differences were smaller. The two BIA devices provided similar means for groups. **Differences between the two BIA devices with increasing FM% were a result of the InBody (720) not including age in their algorithm for estimating body composition.**
- Faria SL, Faria OP, Cardeal MD, Ito MK. Validation study of multi-frequency bioelectrical impedance with dual-energy X-ray absorptiometry among obese patients. Obes Surg 2014; 24(9):1476.80.
 - **Conclusion:** BIA proved to be a safe alternative for assessing BC in clinically severely obese patients and thus provides a more accessible evaluation tool for this population. But, consideration should be given to the formula added to the BIA measurement, adjusting the values to differences observed in order to reduce errors when compared with the DXA measurements

 Völgyi E, Tylavsky FA, Lyytikäinen A, Suominen H, Alén M, Cheng, S. Assessing body composition with DXA and bioimpedance: effects of obesity, physical activity, and age. Obesity 2008; 16(3):700-5.

Conclusion: Compared to DXA, both BIA devices (Tanita MC180 and Inbody 720) provided on average 2-6% lower values for FM% in normal BMI men, in women in all BMI categories, and in both genders in both HPA and LPA groups. In obese men, the differences were smaller. The two BIA devices provided similar means for groups. **Differences between the two BIA devices with increasing FM% were a result of the InBody (720) not including age in their algorithm for estimating body composition**

 Karelis AD, Chamberland G, Aubertin-Leheudre M, Duval C; Ecological mobility in Aging and Parkinson (EMAP) group. Validation of a portable bioelectrical impedance analyzer for the assessment of body composition. Appl Physiol Nutr Metab. 2013 Jan;38(1):27-32.

Conclusion: the present study indicated that the portable Inbody 230 may be an acceptable device to measure fat mass, % body fat, and total FFM (except for women) in healthy adults. In addition, there appears to be a systematic bias for the estimation of trunk and appendicular FFM with the Inbody 230 in men and women.

 Sillanpää E, Cheng S, Häkkinen K, Finni T, Walker S, Pesola A, Ahtiainen J, Stenroth L, Selänne H, Sipilä S. Body composition in 18- to 88-year-old adults--comparison of multifrequency bioimpedance and dual-energy X-ray absorptiometry. Obesity 2014; 22(1):101-9

Authors note: "we also found that age was a significant predictor in all body composition estimates both in women and in men. Although age and sex are often employed in BIA algorithms because of an increase in measurement accuracy".



ETHNICITY and GENDER

The following papers conclude Ethnicity increases accuracy of adult and children's body composition measurements using BIA technology:

- Nightingale CM, Rudnicka AR, Owen CG, Donin AS, Newton SL, Furness CA, Howard EL, Gillings RD, Wells JC, Cook DG, Whincup PH. Are ethnic and gender specific equations needed to derive fat free mass from bioelectrical impedance in children of South Asian, Black African-Caribbean and White European origin? Results of the assessment of body composition in children study. Plos One 2013; 18, 8(10):e76426.
- Kumar S, Khosravi M, Massart A, Potluri M, Davenport A. The effects of racial differences on body composition and total body water measured by multifrequency bioelectrical impedance analysis influence delivered Kt/V dialysis dosing. Nephron Clin Pract. 2013;124(1-2):60-6.
- Aglago KE, Menchawy IE, Kari KE, Hamdouchi AE, Barkat A, Bengueddour R, Haloui NE, Mokhtar N, Aguenaou H. Development and validation of bioelectrical impedance analysis equations for predicting total body water and fat-free mass in North-African adults. Eur J Clin Nutr 2013; 67(10):1081-6.
- Nightingale CM, Rudnicka AR, Owen CG, Cook DG, Whincup PH.
 Patterns of body size and adiposity among UK children of South Asian, black African-Caribbean and white European origin: Child Heart And health Study in England (CHASE Study). Int J Epidemiol 2011; 40(1):33-44.
- Haroun D, Taylor SJ, Viner RM, Hayward RS, Darch TS, Eaton J, Cole TJ, WellsJC. Validation of Bioelectrical Impedance Analysis in Adolescents Across Different Ethnic Groups. Obesity 2010; 18(6):1252-59.
- Gibson AL, Holmes JC, Desautels RL, Edmonds LB, Nuudi L Ability
 of new octapolar bioimpedance spectroscopy analyzers to predict
 4-component-model percentage body fat in Hispanic, black, and
 white adults. Am J Clin Nutr 2008; 87(2):332-8.

- Zhu S, Heymsfield SB, Toyoshima H, Wang Z, Pietrobelli A, Heshka S.
 Race ethnicity-specific waist circumference cutoffs for identifying cardiovascular disease risk factors. Am J Clin Nutr 2005; 81(2): 409-415.
- Deurenberg P, Deurenberg-Yap M, Schouten FJ. Validity of total and segmental impedance measurements for prediction of body composition across ethnic population groups. Eur J Clin Nutr 2002; 56:214-220.
- Jakicic JM, Wing RR, Lang W. Bioelectrical impedance analysis to assess body composition in obese adult women: the effect of ethnicity. Int J Obes 1998; 22:243–249.
- McKeigue PM, Shah B, Marmot MG. Relation of central obesity and insulin resistance with high diabetes prevalence and cardiovascular risk in South Asians. Lancet 1991; 337:382-386.

To summarize the key findings related to ethnicity and gender:

Previous articles have demonstrated a need for ethnic-and gender-specific prediction equations both in adults and in adolescents. Having in the equation control for ethnicity we reduced the underestimation of fat mass in Asian population.

Ethnic differences in the optimal equations for the prediction of FFM from BIA are likely to reflect the marked ethnic differences in body composition in children of different ethnic groups (Deurenberg P, Deuremberg-Yap, 2002). These include differences in stature, black African-Caribbean children are taller and in particular have greater leg length than white Europeans and South Asians, and lean mass, particularly muscle mass, which tends to be lower among South Asians (Nightngale et al, 2011).

In addition, the amount and distribution of body fat varies appreciably between ethnic groups, with South Asians having a higher proportion of total fat in their abdomen (McKeigue et al 1991), while black African-Caribbeans may have a lower proportion compared to white Europeans (Zhu et al, 2005).



PHYSICAL ACTIVITY

In addition, Tanita has created Athlete mode to account for differences in muscle mass hydration of standard and more active individuals.

- Verney J, Schwartz C, Amiche S, Pereira B, Thivel D. Comparisons of a Multi-Frequency Bioelectrical Impedance Analysis to the Dual-Energy X-Ray Absorptiometry Scan in Healthy Young Adults Depending on their Physical Activity Level. J Hum Kinet. 2015;14(47):73-80.
- Gába A, Kapuš O, Cuberek R, Botek M. Comparison of multi- and single-frequency bioelectrical impedance analysis with dual-energy X-ray absorptiometry for assessment of body composition in postmenopausal women: effects of body mass index and accelerometerdetermined physical activity. J Hum Nutr Diet. 2015; 28(4):390-400.

COMMENTS:

Several articles, see references above and also the references in the two articles mentioned (Verney et al, 2015; Gaba et al, 2015) where they underlined the accuracy of BIA depends on level of physical activity. In other words hydration of fat free mass is influenced by physical activity.

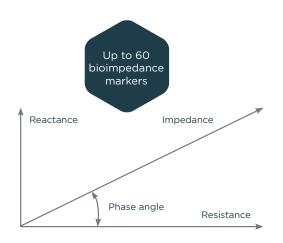
In light of this, it is fundamental to know physical activity level and having an equation that "control" for physical activity.

Levels of Accuracy

How does BIA technology work?

Bioelectrical Impedance Analysis is a technique used for estimating body composition. All Tanita body composition monitors use advanced Bioelectrical Impedance Analysis technology. When you stand on a Tanita monitor, a very low, safe electrical signal is sent from four metal electrodes through your feet to your legs and abdomen to produce whole body composition measurements. In segmental models, the four hand-held electrodes will provide extra readings for each leg, arm and abdominal area.

The electrical signal passes quickly through water that present in hydrated muscle tissue but meets resistance when it hits fat tissue. This resistance, known as impedance, is measured and input into scientifically validated Tanita equations to calculate body composition measurements in under 20 seconds.





Multi frequency BIA technology

Tanita Multi-Frequency Monitors are able to measure bioelectrical impenedance analysis at three or six different frequencies. The additional frequencies provide an exceptional level of accuracy compared to single and dual frequency monitors. The lower frequencies measure the impedance external to the cell membrane.

The higher frequencies are able to penetrate the cell membrane.

By measuring impedance at both the lower and higher frequencies it is possible to estimate extra-cellular water (ECW), intracellular water (ICW) and Total Body Water. This information is essential for providing the health status of a person and indicating health risks such as severe dehydration or oedema.



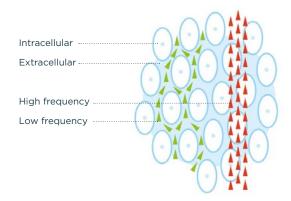
Single frequencyBIA technology

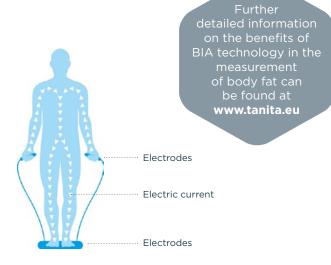
Tanita body composition monitors with Single frequency Bio-electrical Impedance Analysis Technology use a single frequency to capture body composition data.



Dual frequencyBIA technology

Tanita body composition monitors with Advanced Dual Bioelectrical Impedance Analysis Technology use two different frequencies to capture your body composition data. By using different frequencies, a higher accuracy of measurements can be achieved.





Levels of Personalisation



Segmental

Personalisation

Segmental Body Composition Measurements is the highest level of personalised assessment available.

In addition to whole body measurements, the Tanita Segmental Monitor will assess impedance of each arm, leg and trunk area independently. This allows an additional layer of information about a person's health and fitness status including segmental muscle mass and fat free mass.

This information can be used to identify specific anomalies in body composition such as oedema in the legs or localize muscle changes pre or post surgery having higher upper body muscle mass. More importantly, segmental body composition analysis allows even the smallest changes in body composition to be identified and monitored over time giving a precise picture of overall health.



Whole Body

Personalisation

Using Advanced Dual or Single BIA technology, Tanita Body Composition Monitors can provide instant whole body measurements.

This includes body fat, fat mass, fat free mass, muscle mass, total body water, bone mass, BMR, metabolic age and visceral fat level, plus body cell data such as phase angle. Further analysis of healthy ranges for these parameters are also available providing an excellent overview of a person's health and fitness status.

BIA Information								
	5kHz	50kHz	250kHz	Phase Angle				
H-L	667.0 -24.3	599.3 -57.4	539.9 -60.6	-5.5				
RL	252.9 -10.4	224.6 -22.0	203.2 -17.5	-5.6				
LL	257.4 -10.5	228.7 -22.1	206.9 -18.3	-5.5				
RH	391.1 -13.7	353.4 -35.9	314.7 -43.5	-5.8				
LH	385.2 -12.6	348.8 -33.7	313.1 -42.3	-5.5				
L-L	511.9 -20.8	454.7 -44.0	410.9 -35.7	-5.5				



Information Output



Tanita Pro Software Information Output

The Tanita PRO software package has been developed in partnership with the leading software developer Medizin & Sevice GmbH.

The software captures data from Tanita Body Composition Analysers, ERKA blood pressure monitor and Activity Monitors, transfers it to a computer, and provides a patient database with professional reports, graphs and trend analysis that can be used for patient education, research and clinical records.

In line with EU regulations, the software is Medically Approved, which complies with MDD (Medical Device Directive) regulations. (Council Directive 93/42/EEC of 14 June 1993 concerning medical devices.)

In addition to body composition data captured from the Tanita Analyser, the user can input target values and waist circumference measurements allowing a full overview of a patient's health and physical progress.

A full colour, printable, client consultation sheet showing segmental body composition analysis and ranges is available for MC-980 MA PLUS, MC-780 MA, DC-360, DC-430 MA and SC-240 MA





PRO



I AM MAKING A DIFFERENCE

TO OUR PATIENTS' LIVES
THANKS TO USING
THE BEST TECHNOLOGY

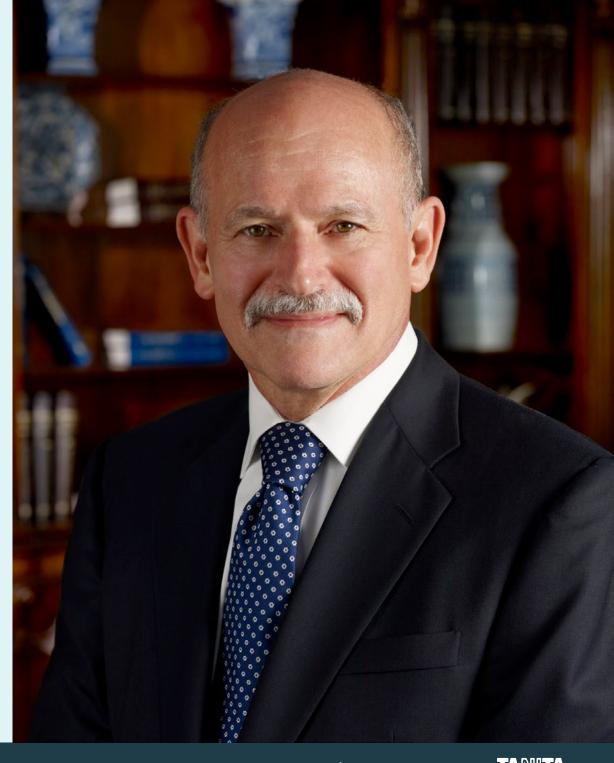
As a Medical Advisory Board member, I have consulted with and learned from Tanita engineers for over 20 years as they developed early prototypes that have now blossomed into advanced bioimpedance technologies that accurately quantify body composition.

These developments are timely as a critical need exists to go beyond simple but inaccurate measures of body shape and composition (e.g., body mass index) when evaluating people with obesity, sarcopenia, and other chronic medical conditions and diseases.

Professor Steven Heymsfield

Executive Director of Pennington Biomedical Research Center, Baton Rouge USA.

Member of Tanita Medical Advisory Board



Body Composition Measurements



Weight



Body Fat Mass

The actual weight of fat in your body



Body Fat Percentage

The amount of body fat as a proportion of your body weight



Total Body Water Percentage

The total amount of fluid in your body as percentage of your total weight



Muscle Mass

The predicted weight of muscle in your body including skeletal muscles, smooth muscles and the water contained within your muscles



Physique Rating

Assesses your physique according to the ratio of body fat and muscle mass in the body



Daily Caloric Intake

Estimate of calories you can eat in 24 hours to maintain current weight



BMR (Basal Metabolic Rate)

Number of calories your body needs at rest



Metabolic Age

Age level your body is rated at, according to your BMR



Bone Mass

The amount of bone (bone mineral level, calcium, other minerals) in your body



Visceral Fat Rating

Indicates level of fat surrounding your vital organs in the abdominal area



Muscle Score

Muscle mass is judged by calculating the amount of muscle mass against your height and then the amount is classified.



Body Mass Index

Indicates the relationship between your height and weight



Phase Angle

Phase angle is an indicator of cellular health and integrity.



ICW

Intracellular Water is the fluid found inside cells. Usually 40% of your body weight is intracellular water.



ECV

Extracellular Water is the body fluid found outside of cells.



Protein

The weight of protein in the body, protein is essential for the maintenance of muscle within the body

%Total Body Water

45% to 60% Female Male 50% to 65%

Athletic Body Types

5% higher than adult range



Healthy level rating (1 - 12)**Excess level rating** (13 - 59)



Female W	Healthy	
		BM weight
less than	50kg	1.95kg
between	50kg - 75 kg	2.40kg
over	76 kg	2.95kg

Male Weight Healthy

BM weight Less than 65kg 2.65kg 65kg - 95kg 3.29kg between over 95kg 3.69kg

Healthy Body Fat Range %

	Underfat	Healthy	Overfat	Obese
Female Age				
20 - 39	0% - 21%	21% - 33%	33% - 39%	39%+
40 - 59	0% - 23%	23% - 34%	34% - 40%	40%+
60 - 99	0% - 24%	24% - 36%	36% - 42%	42%+
Male Age				
20 - 39	0% - 8%	8% - 19%	19% - 25%	25%+
40 - 59	0% - 11%	11% - 21%	21% - 28%	28%+
60 - 99	0% - 13%	13% - 25%	25% - 30%	30%+

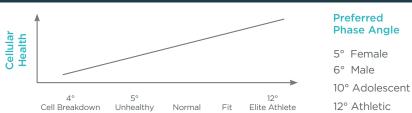


Healthy range 18.5 - 25

Muscle mass is judged calculating the amount of muscle mass against the person's

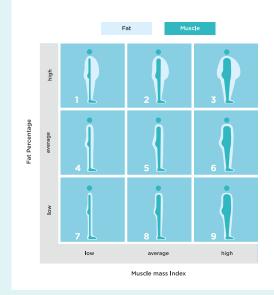
-4 -3 -2 -1 0 1 2 3 4	Low	Average			High		
			0		2	3	

Phase Angle



Physique Rating

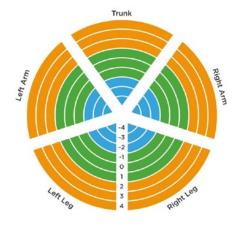
Result	Physique Range	Explanation
1	Hidden Overfat	High body fat % with low muscle mass
2	Medium Frame Overfat	High body fat %, moderate muscle mass
3	Solidly Built	Large frame, high body fat % & muscle mass
4	Low Muscle	Average body fat % & low muscle mass
5	Standard	Average levels of body fat % & muscle mass
6	Muscular	Average body fat % & high muscle mass
7	Low Muscle & Underfat	Low body fat % & low muscle mass
8	Thin & Muscular (Athlete)	Low body fat % & adequate muscle mass
9	Very Muscular (Athlete)	Low body fat % & high muscle mass



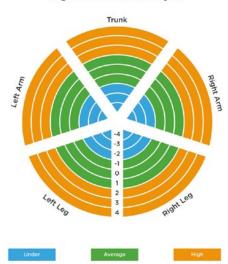
Segmental Measurements

8-electrode segmental technology to show body composition measurements for each arm, leg and trunk area.

Segmental fat analysis



Segmental muscle analysis





LEVEL OF ACCURACY

ACCURACY GRADE: NAWI Class III, MDD Class II-a.

LEVEL OF PERSONALISATION

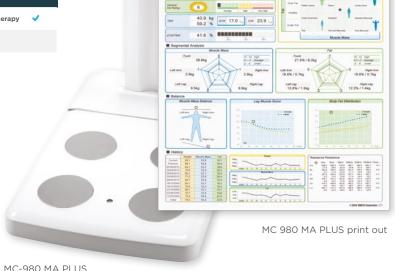
- Full segmental body composition analysis provided in 30 seconds using clinically accurate Tanita Multi Frequency BIA Technology.
- The Tanita device can be operated effortlessly using the intuitive touchscreen display which presents precise Tanita BIA data and allows easy transfer of results to PC or printer.

INFORMATION OUTPUT

- Software and detailed consultation sheets available in 14 languages.
- In-built Microsoft® Windows® real time OS allows client data to be automatically stored, managed and output. Windows 8 upgrade.
- USB ports allow simple data input/output and accessories to be connected including printers, bar code scanners and data capture devices.
- Tanita PRO Software compatible, allowing trend analysis, health risk assessments and full data management.

Clinical Application									
Oncology	✓	Weight Management	✓	Occupational Health	~	Pharmacy	✓	Physiotherapy	✓
Diabetes	~	Renal	~	Bariatrics	~	Paediatrics	v		
Cistic Fibrosis	~	COPD	~	General practice	~	Geriatrics / Active ageing	✓		

Technical Specification	
Accuracy Grade	MDD CLASS II-a, NAWI CLASS III
Approved Usage	MDD approved for medical use
Age Range	5 - 99 years
Weight Capacity	300 kg
Graduation	0.1kg
Product Dimensions	450 x 490 x 1240 mm
Product Weight	33 kg
Power Source	230V
Interface	3 x USB



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TANUTA

Total Body Measurements

- Weigh
- BMI
- Body Fat %
- Visceral Fat Indicator
- Fat Mass
- Fat Free Mass
- Muscle Mass
- Protein kg
- Total Body Water Kg
- Total Body Water %
- Extra-Cellular Water Kg
- Intra-Cellular Water Kg
- ECW/TBW Ratio
- Basal Metabolic Rate
- Basal Metabolic Rate Indicator
- Bone Mineral Mass Indicator
- Metabolic Age
- · Physique Rating
- Sarcopenia Index *new*

Segmental Measurements

- Segmental Body Fat %
- Segmental Body Fat kg
- Segmental Fat Distribution Analysis
- Segment Fat Distribution Rating
- Segmental Muscle Mass Kg
- Segmental Muscle Mass Rating
- Segmental Muscle Mass Balance
- Leg Muscle Score
- Segmental Reactance/ Resistance
- Segmental Phase Angle

Compatible Software

PRO PRO



Body Composition Analyzer

12.5 - 2.8 - 12.9 - 17.0 -



MC-780 MA

Multi frequency Segmental Body Composition Analyser with interactive display console and in-built SD card facility

The MC-780 MA has been designed to be an interactive stand-alone unit where clients can step on and take a measurement without specialist assistance. A full segmental body composition analysis is performed in less than 20 seconds.

The large LED dual display shows whole body composition measurement data and detailed segmental analysis in an easy-to-read illustrative format.



LEVEL OF ACCURACY

ACCURACY GRADE: NAW: Class III. MDD: Class IIa.

LEVEL OF PERSONALISATION

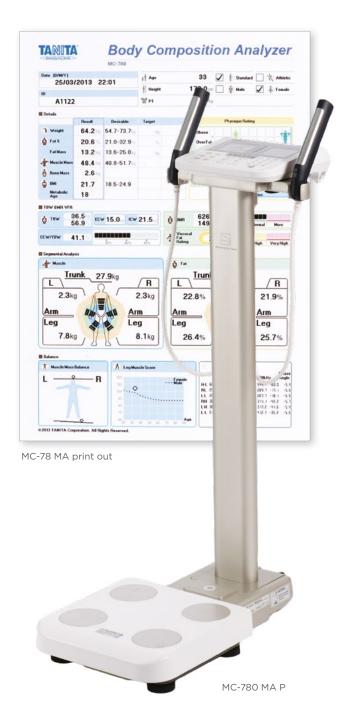
- Full and fast segmental body composition analysis using clinically accurate multi frequency BIA technology.
- · Certified for medical consultations.

INFORMATION OUTPUT

- In-built SD card facility allows data to be automatically collected and downloaded at convenience
- Client Identity feature allows continuous data to be collected for each client effortlessly. Also allows large anonymous data sets to be collated for research studies
- USB Connection
- Display console can be reversed for confidential readings with children or when large obese clients step on
- Output to any Pictbridge printer for a detailed client consultation sheet allowing a full client assessment.

Clinical Application										
Oncology	~	Weight Management	~	Occupational Health	~	Pharmacy	~	Physiotherapy	~	
Diabetes	•	Renal	~	Bariatrics	~	Paediatrics	v			
Cistic Fibrosis	~	COPD	~	General practice	~	Geriatrics / Active ageing	~			

Technical Specification	
Accuracy Grade	MDD CLASS II-a, NAWI CLASS III
Approved Usage	MDD approved for medical use
Age Range	5 - 99 years
Weight Capacity	270kg
Graduation	0.1kg
Product Dimensions	(P) 360 x 360 x 1165mm (S) 360 x 360 x 1165mm
Product Weight	(P) 22kg (S) 15.5kg
Power Source	AC 100 - 240V
Interface	RS232, USB, SD CARD



Total Body Measurements

- BMI
- Body Fat %
- Visceral Fat Indicator
- Fat Mass
- Fat Free Mass
- Muscle Mass
- Physique Rating
- Total Body Water Kg
- Total Body Water %
- Extra-Cellular Water Kg • Intra-Cellular Water Kg
- ECW/TBW Ratio
- Phase Angle
- Basal Metabolic Rate
- Basal Metabolic Rate Indicator
- Metabolic Age
- Bone Mineral Mass Indicator

Segmental Measurements

- Segmental Body Fat %
- Segmental Fat Distribution
- Segmental Muscle Mass Kg
- Segmental Muscle Mass Rating
- Segmental Muscle Mass Balance
- Segmental Reactance/ Resistance
- Segmental Leg Muscle
- Segmental Phase Angle

Compatible Software





LEVEL OF ACCURACY

ACCURACY GRADE: MDD Class II-a. NAWI Class III

LEVEL OF PERSONALISATION

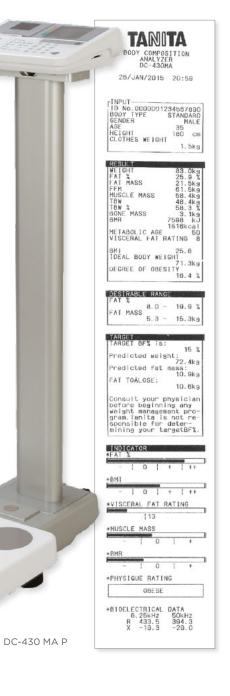
- Full body composition analysis provided in 20 seconds using clinically accurate Tanita Dual Frequency BIA Technology
- Certified for medical consultations

INFORMATION OUTPUT

- Integrated printer prints instant read out of results with topline analysis.
- Results automatically stored on the SD Card, sent to a PC or printed.
- Tanita PRO Software compatible, allowing trend analysis, health risk assessments and full data management.
- Print Out Analysis: Body Fat Analysis, Muscle Mass Indicator, BMR Indicator, Physique Rating, Target: BF and Weight

CLINICAL APPLICATION								
Oncology	~	Weight Management	✓	Occupational Health	~	Pharmacy	~	Physiotherapy
Diabetes		Renal		Bariatrics	~	Paediatrics	~	
Cistic Fibrosis		COPD		General practice	v	Geriatrics / Active ageing	•	

TECHNICAL SPECIFICATION						
Accuracy Grade	MDD CLASS II-a, NAWI CLASS III					
Age Range	5 - 99 years					
Weight Capacity	270kg					
Graduation	100g					
Product Dimensions	(P) 360 x 360 x 1070 (S) 360 x 360 x 94					
Product Weight	(P) 13.5kg (S) 7kg					
Power Source	AC 100 - 240V					
Interface	RS232, USB, SD CARD					
IIICITACC	1(3232, 03b, 3b CARb					



Measurements

- Body fat %
- Fat mass kg.
- Fat free mass kg
- Muscle mass kg
- Total Body Water %
- Body mass index
- Bone mass kg
- Physique rating
- Visceral fat rating
- Basal Metabolic Rate kcal
- Basal Metabolic Rate indicator
- Metabolic Age
- Print Out Analysis:
 - Body Fat Analysis
 - Muscle Mass Indicator
 - BMR Indicator
 - Physique Rating
 - Target: BF and Weight

Accessories





TP 301 Paper Rolls

Bluetooth wireless connection Parani

Compatible Software







DC-360

Dual Frequency Body Composition Monitor with Integrated Printer

Featuring Dual Frequency BIA technology, the DC-360 delivers full body composition analysis in 20 seconds. Results are instantly shown on the easy-to-read LCD screen and the integrated printer automatically prints the body composition measurements together with a top line analysis.

The robust, low profile platform provides additional client stability. For large data collection and convenience, all data can be stored on the SD Card for future use. Compatible with Tanita PRO Software, the DC-360 allows client trend analysis, health risk assessments and full data management.



LEVEL OF PERSONALISATION

• Full body composition analysis provided in 20 seconds using clinically accurate Tanita Dual Frequency BIA Technology

INFORMATION OUTPUT

- Integrated printer provides instant read out of results with topline analysis.
- Results automatically stored on the SD Card, sent to a PC or printed.
- Tanita PRO Software compatible, allowing trend analysis, health risk assessments and full data management.

CLINICAL APPLICATION				
Oncology	Weight Management	Occupational	Pharmacy	Physiotherapy
Diabetes	Renal	Bariatrics	Paediatrics	
Cistic Fibrosis	COPD	General practice	Geriatrics / Active ageing	

TECHNICAL SPECIFICATION		
Age Range	5 - 99 years	
Weight Capacity	270kg	
Graduation	100g	
Product Dimensions	(P) 360 x 360 x 1070 (S) 360 x 360 x 94	
Product Weight	(P) 13.5kg (S) 7kg	
Power Source	AC 100 - 240V	
Interface	RS232, USB, SD CARD	



Measurements

- Body fat %
- Fat mass kg,
- Fat free mass kg
- Muscle mass kg
- Total Body Water %
- Body mass index
- Bone mass kg
- Physique rating
- Visceral fat rating
- Basal Metabolic Rate kcal
- · Basal Metabolic Rate indicator
- Metabolic Age
- Print Out Analysis:
 - Body Fat Analysis
 - Muscle Mass Indicator
 - BMR Indicator
 - Physique Rating
 - Target: BF and Weight

Accessories





TP 301

Bluetooth wireless

Compatible Software







SC-240 MA

Single frequency Portable Body Composition Analyser

The SC-240 MA is the lightest medically approved body composition monitor on the market, weighing just 4.7kg. It has been developed with input from healthcare, fitness and weight management professionals and its portability makes it ideal for mobile consultations, community work or field research studies.

When used with Tanita PRO Software, the SC-240 MA can be automatically set-up for personalised patient studies, capturing measurements and trend results in a variety of reporting formats.



SC-240 MA

LEVEL OF ACCURACY

ACCURACY GRADE: NAWI Class III, MDD Class II-a

LEVEL OF PERSONALISATION

- Full body composition analysis provided in 15 seconds using clinically accurate Tanita BIA Technology
- Certified for medical consultations

INFORMATION OUTPUT

• Core body composition results shown on screen. All additional results can be accessed via Tanita PRO Software allowing trend analysis, health risk assessments and full data management.

TECHNICAL SPECIFICATION			
Accuracy Grade	MDD CLASS II-a, NAWI CLASS III		
Age Range	5 - 99 years		
Weight Capacity	200kg		
Graduation	100g		
Product Dimensions	340 x 440 x 65 mm		
Product Weight	4.7kg		
Power Source	9 V Adaptor or 6 x AA Batteries		
Interface	USB		



Measurements

- Weight
- Body fat %
- Body water %
- BMI

Measurements only available via software

- Body Fat %
- BMI
- Fat Mass
- Fat Free Mass
- Body Water %
- Body Water Mass
- Muscle Mass
- Bone Mineral Mass
- Visceral Fat Level
- Basal Metabolic Rate
- Metabolic Age

Compatible Software







WB 150 MA

High Capacity Scale

The WB150MA scale incorporates single load cell precision weighing up to 270kg.

The extra large digital display is easy to read. Additional functions include a tare function useful for weighing small children held in an adult's arms.

The scale is available in a column version or a portable version.



LEVEL OF ACCURACY

• ACCURACY GRADE: MDD Class II-a, NAWI Class III

INFORMATION OUTPUT

• Easy to read extra large digital display

OTHER FEATURES

- High weight capacity 270kg
- Tare and weight lock facility
- Calibrated up to 300,000 uses with automatic calibration after each measurement

TECHNICAL SPECIFIC	CATION	
Accuracy Grade	MDD CLASS II-a, NAWI CLASS III	
Weight Capacity	270 kg	
Graduation	100 g	
Product Dimensions		
- Pole Version	301x 336x 845 mm	
- Separate Version	301 x 336 x 82 mm	
Product Weight		
- Pole Version	7.1kg	
- Separate Version	5.1 kg	
Power Source	DC 9V Adaptor Included or 6 x AA Alkaline Batteries	
Battery life	100 hours continuous use	
Output data	RS232C	
Warranty	3 Years	



Measurements

- Weight
- Tare Facility
- Weight Lock

Compatible Software





WB 380

Digital Weighing Scale

The WB380 is a 300kg high capacity precision digital scale featuring a BMI function.

The scale is available in three formats: portable, with a column mounted display or with an integrated height rod.



INFORMATION OUTPUT

- Large easy-to-read LCD display
- Rotating display allowing confidential readings

OTHER FEATURES

- High weight capacity 300kg
- Step on activation
- Low level, stable platform for elderly or obese patients

TECHNICAL SPECIFIC	CATION
Maximum Capacity	300kg
Minimum Graduation	0.1kg
Measurement System	Mechanical Height Rod (WB 380 H only)
Range of Height	64cm - 214cm (WB 380 H only)
Input items - Height	61cm- 250cm 1cm increments
Output Items - Weight	300kg / 0.1kg increments
Output Items - Height	61cm- 250cm / 1cm increments
Output Items - BMI	0.1 increments
Overall size	S: 240 x 139 x 123 mm (Indicater) P: 395 x 595 x 1196 mm H: 395 x 552 x 1425 mm
Platform size:	395 x 390 x 59 mm
Product Weight	S: Total 7.1kg P: Total 10.0kg H: Total 11.2kg
Output Data Interface	RS-232C (D sub 9-pin Female connector) USB (B-type)
Power Source	AC adapter (included) Centre Minus DC 6V 200mA (LR6 - AA Alkaline Battery x 4)
Battery Life	Approximately 100 hours of continuous use
Warranty	3 years



Measurements

- Weight
- Weight Lock
- BMI
- Height

Accessories



C 300 Bag

Compatible Software



3 YEAR **GUARANTEE**



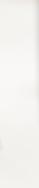
Professional Digital Blood Pressure Monitor ERKA (BP17)

Bluetooth and interval feature included

Tanita has partnered with the one of the world's leading manufacturers of professional blood pressure monitors.

Renowned for their accuracy, ERKA has created an exclusive high-end medical device that will enhance the Tanita range of health monitoring products.





BP-17



KEY FEATURES

4 Blood Pressure Measuring Modes

Choice between FOUR blood pressure measurement modes: the mode RAPID for single measurements, the mode ADVANCED for measurements in accordance with the guidelines of the European Society of Hypertension (ESH) and Manual mode where a stethoscope is used.

The INTERVAL mode has been developed exclusively with Tanita: Measures blood pressure continuously for a set period of time – shows a true picture of blood pressure rather than a snap reading.

The advantages are:

- Overcoming the 'doctors effect', whereby patients can feel nervous visiting a doctor or when too short resting time.
- Best possible way to track changes and helps identify patients risk level
- Effects of drug interventions can be measured directly
- Athletes measure how fast BP returns to normal level after activity
- Highlights stress levels and regulation

Intuitive Menu Navigation

Full-colour innovative 4.2 TFT touch-screen allows easy operation. Sufficient memory space enables storage and clear view of measurement readings. The simple structure of the device ensures its user-friendliness.

Connected

With integrated Bluetooth function, all data can seamlessly be transferred for data collection. SDK allows instant connection and integration to health and wellbeing partner software.

Tanita PRO Ready

Already fully integrated into Tanita PRO software, blood pressure readings can be monitored together with full body composition readings.

TECHNICAL SPECIFICATION			
Power supply	Lithium-ion rechargeable battery		
Dimensions	133 mm x 70 mm x 25 mm		
Product Weight	about 180 gr		
Display	Digital display		
Memory	500 readings for each measuring mode		
Measurement method	Oscillometric		





Compatible Software
TANITA

MADE IN | 5 YEAR GERMANY | GUARANTEE

Accessories



C-360

Padded Case with Wheels and Telescopic handle

- Compatible with DC-360 portable
- Trolley Bag with wheels and pull up handle.
- Dimensions (inc wheels): H:69 x L:43.5 x W:20 cm



C-430

Padded Case with Wheels and Telescopic handle

- Compatible with Tanita DC-430
- Dimensions (inc wheels):
 H:54 x L:39 x W: 19.5 cm



C-780

Padded Case with Wheels and Telescopic handle

- Compatible with MC-780 MA portable
- Padded Case with Wheels and Telescopic handle
- Padded interior for safe storage and handy internal pockets.
- Dimensions (incl wheels): H:69 x L:43.5 x W:27 cm



C-300 CH

Padded Case with Wheels and Telescopic handle

- Compatible with Multiple Tanita products.
- Suitable for BC420SMA, SC240, SC330S and WB-380.
- Total Handle Length 830 mm.
- Dimensions (inc wheels): 470 x 410 x 245 mm.



MC-780MA BLUETOOTH KIT / Parani

 The MC 780 Bluetooth kit consists of two parts, master module (USB Stick on the computer) and slave module (for the device with 9-pin port).

Leasing possibilities

Tanita now offers favourable leasing contracts for professional equipment. We offer 3 or 5 year leasing contracts with a possible "buying" option.

All we need to be able to help you to expand your business is:

- Company name and country
- Your name, email and title
- Chamber of Commerce number
- Your (business) phone number





Notes





Would you like a free demonstration, to discuss the clinical application or to get a non obligation offer? Contact our Tanita team

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