seca mBCA 514

medical Body Composition Analyzer



- Fast and easy assessment of body composition, e.g., fat mass and body water.
- Six modules for varied analysis of measurement data.
- Medically precise, validated against gold standard measurement results.
- Network-compatible with seca 360° wireless technology.
- Simple and convenient entry and read-out of results on swiveling touch-screen display.
- Electrodes on handrail give patients a firm stance and ensure reproducible results.
- Integrated scale with a weighing capacity of up to 660 lbs.







seca mBCA 514:

A body composition analyzer that delivers medically precise results.

he medical Body Composition Analyzer (mBCA) from seca breaks down weight into several compartments that are important for medical purposes. The seca mBCA 514 is a medical body composition analyzer validated against the gold standard recognized by medical science.



Technical Data

General

Dimensions (WxHxD)

Weight

Display

Power supply

Voltage

Power frequency

Interfaces

Compatible printers

Bioelectrical Impedance Analysis

Measurement method

Type of electrode

Measurement frequencies

Measurements

Phase angle measurement range

Measurement range Impedance

Measurement segments Measurement current

Measurement time

Technical data for scale

Capacity

Fine graduation

Information

38.43 x 49.25 x 32.6 inch

80 lbs

8.4" Touch-screen display, can be rotated 360°

Power adapter

100 V-240 V

50 Hz-60 Hz

seca 360° wireless technology, USB 2.0, Ethernet

seca 360° wireless, laser printer and inkjet printer via PC software seca analytics 115

8-point Bioelectrical Impedance Analysis

Stainless steel, three (3) pairs of hand electrodes, two (2) pairs of foot electrodes

1; 1.5; 2; 3; 5; 7.5; 10; 15; 20; 30; 50; 75; 100; 150; 200; 300; 500; 750; 1,000 kHz

Impedance (Z), Resistance (R), Reactance (Xc), Phase angle (φ)

0° to 20°

10 Ω to 1,000 Ω

Right arm, left arm, right leg, left leg, right half of body, left half of body, torso

All modes at frequencies of 5 kHz and 50 kHz (max. 20 seconds)

All modules at all frequencies (max. 90 seconds)

Weighing range 1 = 330 lbs

Weighing range 2 = 660 lbs

Weighing range 1 = 0.1 lbs Weighing range 2 = 0.2 lbs

This device is equipped with a wireless module which permits wireless transmission of measurements for analysis and documentation purposes.

Data can be transmitted to the following devices:

- seca 360° wireless printer
- PC with seca USB wireless module

The device can receive data from the following devices:

- seca measuring rods and measuring stations in the seca 360° wireless system
- PC with seca USB wireless module

Accessories

PC software seca analytics 115 (with one workstation license included) combined with the 360° wireless USB adapter seca 456 is compatible with all products in the seca 360° wireless system







seca analytics 115

medical PC software for professional body composition analysis



- PC software to supplement seca mBCA.
- For wireless reception of measurements from all seca 360° wireless devices.
- Offers additional cardiometabolic risk module, trend analysis and much more.
- Creates graphic presentation of examination results for screen display or printout.
- Configurable software interface for integration in Electronic Medical Record (EMR) system (EMR-integrated).



seca analytics 115:

Easy to integrate in hospital, medical practice and all Electronic Medical Record (EMR) systems.

The PC software seca analytics mBCA 115 adds several functions to the seca mBCA. With these functions data and measurements can be integrated in almost any Electronic Medical Record (EMR) system and formatted in a clear printout for the doctor to use in a patient consultation.



All the advantages of the seca analytics 115 at a glance

- Set up your PC so that it can wirelessly receive the measurements of the seca mBCA and other seca 360° wireless devices.
- Acquire the Cardiometabolic risk and the detailed Raw impedence data module for science and research, additional interpretation options, trend curves and the therapy planner.
- Generate easy-to-understand graphic presentations and print them out for your files or for your patients.
- Store all patient and examination data in a central seca database.
- Take the first step toward electronic medical records with EMR integrated.
- With the necessary security, thanks to simple user account management and access rights.

Scientifically sound:

The seca mBCA and the PC software seca analytics 115 consider the following reference values for the analysis and interpretation of measurements:

- Total Body Water (TBW): seca 2011
- Extracellular Water (ECW): seca 2011
- Fat Mass (FM): Gallagher et al. 2000
- Fat-Free Mass (FFM): seca 2011
- Bioelectrical Impedance Vector Analysis (BIVA): Piccoli et al. 1994 (Illustration), seca 2011 (reference values)
- Fat Mass Indices (FFMI/FMI): Piccoli et al. 1994 (illustration), seca 2011 (reference values)
- Skeletal Muscle Mass (SMM):
 Kim et al. 2002
- Percentile charts for children:
 Centers for Disease Control and
 Prevention (CDC) 2000, World Health
 Organization (WHO) 2007,
 Kromeyer-Hauschild et al. 2001

- Waist circumference for children:
 Fernandez et al. 2004, Inokuchi et al. 2007
- Resting energy expenditure for children: Müller et al. 2004
- Resting energy expenditure for adults:
 Müller et. al. 2004, Liu et al. 1995, Food
 and Agriculture Organization of the United
 Nations (FAO)/WHO/United Nations
 University (UNU) 2004
- Metabolic syndrome: International
 Diabetes Federation (IDF) 2006, National
 Cholesterol Education Program Adult
 Treatment Panel III (NCEP-ATP III) 2001
- 10-year risk of coronary heart disease: Framingham Score, Wilson et al. 1998, Prospective Cardiovascular Münster (PROCAM) Assmann et al. 2002, SCORE Conroy et al. 2003





The seven modules for the analysis of measurement results can be compiled for each patient as needed and presented in an easy-to-read PDF document.



seca analytics 115

System requirements

- Supports operating systems:
 Windows XP (SP3), Windows Vista (SP1),
 Windows 7, Windows Server 2003 (SP2) and
 Windows Server 2008 R1 (SP2)
- · Processor: 1.2 GHz or higher
- Required available hard disk space: minimum 1 GB
- Required available RAM: minimum 512 MB RAM
- Peripherals: DVD drive
- Ports: For use with seca devices USB 2.0 or serial interface (RS232)
- Monitor: 1024x768, High Color (16-bit), 32-bit (recommended)