

Medical Measuring Systems and Scales since 1840

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seca united kingdom

seca north america

seca schweiz

seca zhong guo

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► Since 1840 we have been the experts in medical measuring and weighing, so we know the challenges confronting medical facilities today. On the one hand, you have to react as a business in which profitability is top priority. Efficient processes and cost awareness are critical to maintaining a stable position in the market. On the other hand, you want to ensure the well-being of your patient by meeting high standards for quality, service and innovation, criteria by which hospitals and medical practices are judged in times of the informed patient and an increasingly digitalized world.

At seca we demand more of ourselves than a merely adequate reaction to this transformation; we want to have a hand in its development. Our portfolio has long since advanced beyond medical measuring systems and scales and now offers integrated solutions such as measuring stations that communicate with each other, service and software systems that optimize everyday medical processes, and the medical Body Composition Analyzer (mBCA), which uses Bioelectrical Impedance Analysis to revolutionize diagnostics and treatment.

Innovation, integration and service – those are our answers to the medical challenges of our times.


Robert M. Vogel
CEO
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Marketing


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CEO
Development &
Manufacturing


Thomas Wessels
CEO
Finance &
Services

We are designing the transformation.



Innovation

Improve quality,
earn trust

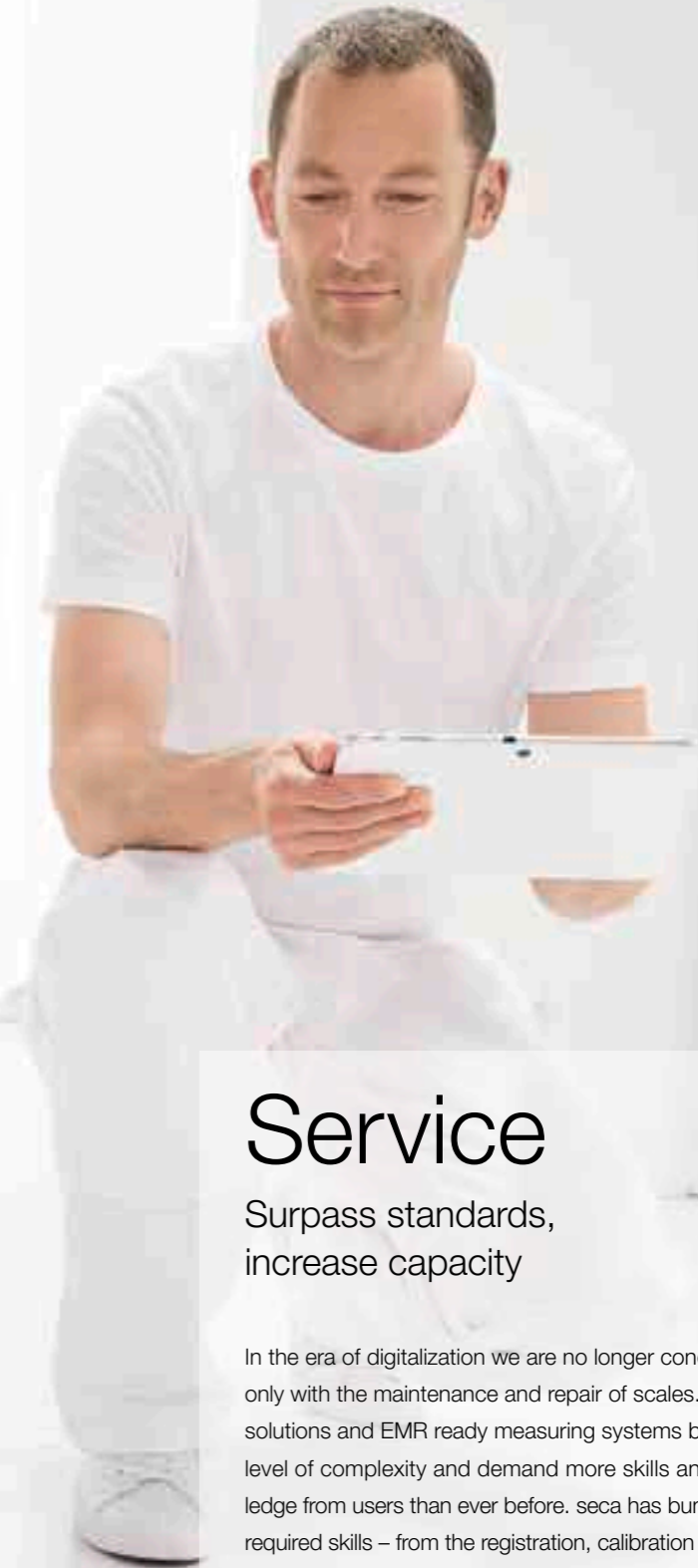
Obesity, Type 2 diabetes, kidney disease, cancer and malnutrition are among the medical challenges of the 21st century. Nutrition and weight-related diseases and complications burden the affected patients, medical personnel and the healthcare system. To combat the problems at all levels, we have taken Bioelectrical Impedance Analysis (BIA) in body composition measuring to a new level. For the first time, seca has had the precision of the BIA parameters validated against the respective gold standards in a multi-center study* and has developed a measurement solution that records the patient's nutritional status and state of health within seconds.

More information is available at www.mbca.seca.com

Integration

Increase efficiency,
prepare for the future

Medical staff members have just a few minutes to spend with each patient. Routine procedures such as measuring and documenting vital signs, weight and height, however, consume valuable time of qualified personnel. To increase efficiency in everyday medical tasks and guarantee error prevention, seca has developed solutions that automatically capture data within seconds and transmit the error-free measurements directly to an EMR system, where they are centrally archived. With digital centralization of all relevant patient data, users can quickly detect changes, see everything in context and get a complete picture of the patient.



Service

Surpass standards,
increase capacity

In the era of digitalization we are no longer concerned only with the maintenance and repair of scales. Software solutions and EMR ready measuring systems bring a new level of complexity and demand more skills and knowledge from users than ever before. seca has bundled those required skills – from the registration, calibration and repair of devices to the connection of EMR ready products in existing Electronic Medical Record (EMR) systems – into an extensive service concept. We offer innovative products supplemented with professional services for hardware and software in order to ensure quality and free up time that users can devote to other priorities.

More information is available at www.secaservice.com



* Studies: Bosy-Westphal A, Schautz B, Later W, Kehayias JJ, Gallagher D. What makes a BIA equation unique? Validity of eight-electrode multifrequency BIA to estimate body Composition in a healthy adult population. Eur J Clin Nutr 2013; 67: 14-21; doi:10.1038/ejcn.2012.160

Best-fit products by medical area of application

PRIMARY CARE



seca mBCA 515
Page 32



seca mVSA 535
Page 36



Ultrasonic measuring station seca 287
Page 40



Doctor scale seca 878 dr
Page 56

SECONDARY CARE



seca mBCA 515
Page 32



seca mVSA 535
Page 36



Ultrasonic measuring station seca 287
Page 40



Stadiometer seca 274
Page 60

NEPHROLOGY & DIALYSIS



seca mBCA 525
Page 33



seca mVSA 535
Page 36



Multifunctional scale seca 685
Page 69



Platform scale seca 657
Page 72

ENDOCRINOLOGY & DIABETOLOGY



seca mBCA 515
Page 32



seca mVSA 535
Page 36



Ultrasonic measuring station seca 287
Page 40



Platform and bariatric scale seca 635
Page 52

INTENSIVE CARE



seca mBCA 525
Page 33



seca mVSA 535
Page 36



Platform scale seca 657
Page 72



Bed and dialysis scale seca 985
Page 76

NEONATOLOGY



Baby scale seca 757
Page 12



Infantometer seca 416
Page 22

PEDIATRICS



Baby scale seca 376
Page 14



Baby scale seca 336i
Page 16

GYNECOLOGY & OBSTETRICS



seca mVSA 535
Page 36



Column scale seca 704
Page 44

CLINICAL NUTRITION



seca mBCA 515
Page 32



Ultrasonic measuring station seca 287
Page 40

FIELD STUDIES & MOBILE USE



Baby scale seca 385/384
Page 19



Mobile measuring and weighing system
Page 55

GERIATRICS



Chair scale seca 959
Page 74



Wheelchair scale seca 677
Page 70





01 / PEDIATRIC SCALES AND MEASURING SYSTEMS
Page 10



02 / MEDICAL BODY COMPOSITION ANALYZER
Page 30



03 / MEDICAL VITAL SIGNS ANALYZER
Page 34



04 / MEASURING STATIONS AND COLUMN SCALES
Page 38



05 / FLAT SCALES
Page 50



06 / HEIGHT MEASURING SYSTEMS
Page 58



07 / MULTIFUNCTIONAL AND WHEELCHAIR SCALES
Page 66

08 SPECIALIZED SCALES
Page 78

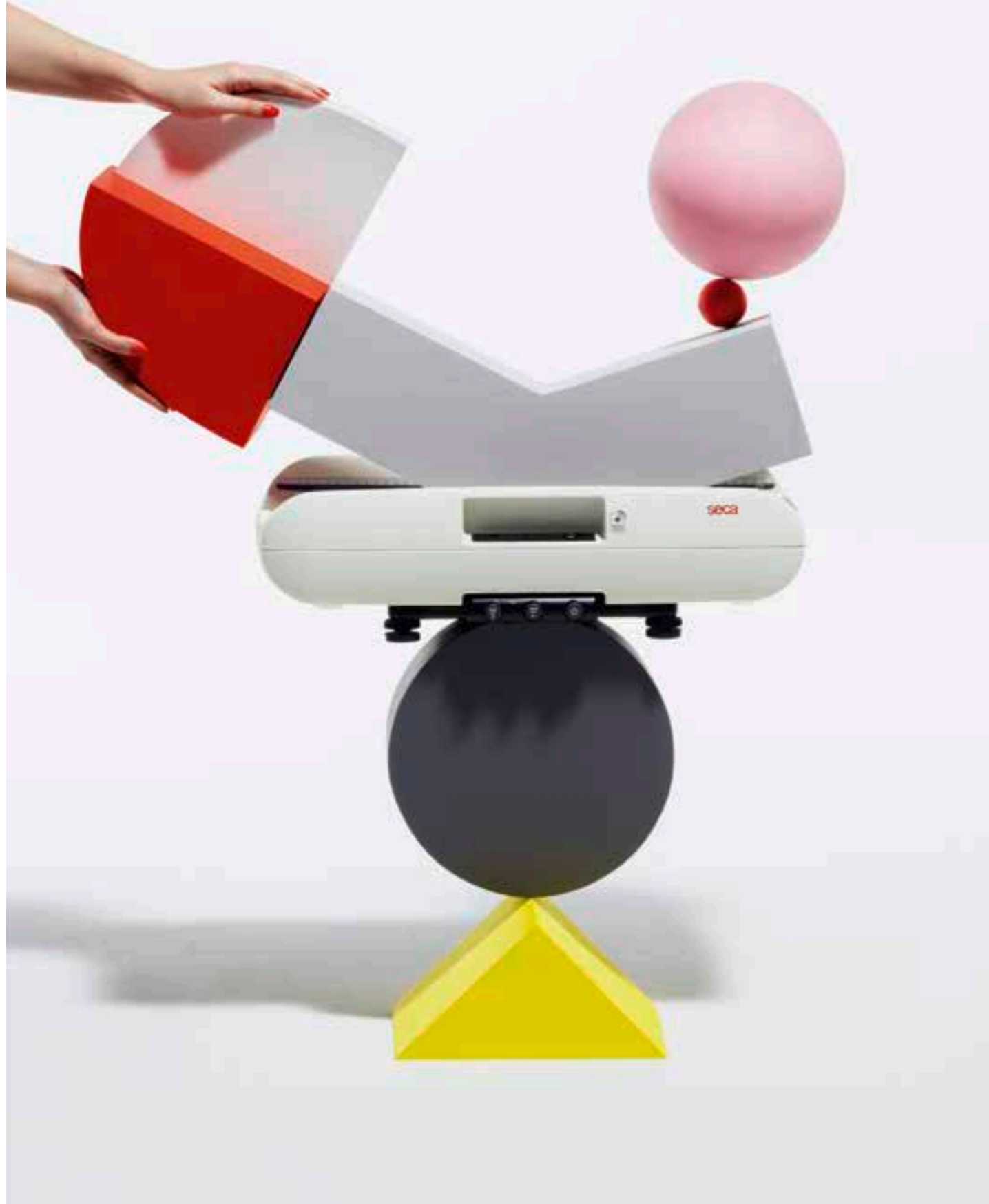
09 WIRELESS PRINTERS
Page 80

10 SOFTWARE
Page 82

Technical data
Page 86

seca technical terms
Page 108

Our products and art
Page 110



PEDIATRIC SCALES AND MEASURING SYSTEMS

Exact measurements:
as important to life as
the air we breathe.

- ▶ The exact measurement of height and weight is an important prerequisite for a healthy start to life. That is why seca offers everything that makes it easy for doctors and nurses to measure and weigh infants – from a mobile measuring mat to a head circumference tape, and baby scales with a damping function that ensures reliable measurements despite movements.

BABY SCALES

Babies who feel safe and secure are easier to weigh.



The damping system ensures fast and precise measurements.

seca 757

EMR ready baby scale with optimized damping system III

A special integrated damping system together with the HOLD function for quick, precise weighing even if the baby is restless. The ergonomically shaped tray with high rounded sides makes it easy to weigh larger babies. A new backlit LCD display ensures comfortable reading of the digits, even in dimmed rooms. Power supply is by power adapter or rechargeable batteries. The seca 757 can transmit measurements wirelessly to an EMR system and receive patient data.

- Capacity: 15 kg
- Graduation: 2 g < 5 kg > 5 g
- Functions: TARE, HOLD, Auto-HOLD, auto weighing range switch-over, kg/lbs switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: interface module seca 452 and seca 456, mobile carts seca 403 and seca 402

Compatible with all EMR systems and EMR ready seca products.



Accessories

seca 403 seca 402

Carts for mobile support of seca baby scales

The seca 403 and seca 402 carts are ideal additions to the seca baby scales seca 757, seca 376, seca 336 i, seca 336, seca 385 and seca 384. They were specially developed for safe and hygienic routine use in hospitals and medical practices. Customized indentations in the surface accommodate the scale's base and ensure that the scale does not slip out of place. Two practical brakes keep the cart stable so babies can be safely weighed.



► Baby scales by seca make weighing fast and comfortable, thanks to the skin-friendly materials that immediately take on and radiate body warmth. With designs that make the baby feel safe and advanced functions that shorten the weighing process. seca integration solutions allow you to transmit measurements quickly and securely without cable connections to any EMR (Electronic Medical Record) or printer.



The new backlit LCD display ensures an easy reading of the digits, even in dimmed rooms.

Can be operated by rechargeable batteries or power adapter.

seca | service

For seca 757:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

The optional measuring rod
seca 233 turns the seca 376
into a complete measuring
and weighing system.




seca | service

For seca 376:


- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca 376

EMR ready baby scale with
extra large weighing tray 

Ergonomic, convenient and time-saving: these are the key words that define the seca 376. Its extra large tray lets you weigh a seated toddler of up to 20 kg, even if the child is fidgety. The adjustable damping function combined with the Auto-HOLD function ensures fast and precise work. Net weight of a diapered baby? Choose TARE. The amount of milk breast-fed to a baby? Use the BMIF (Breast-Milk-Intake-Function). Measuring and weighing in one step? Yes – thanks to the optional measuring rod seca 233. Transmit the weight measurement wirelessly? Just press SEND. You can do it from any location because the seca 376 is operated by batteries, so there's no need for electrical outlets.

- Capacity: 20 kg
- Graduation: 5 g < 7.5 kg > 10 g
- Functions: TARE, BMIF, HOLD, Auto-HOLD, weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: interface module seca 456, mobile carts seca 403 and seca 402, measuring rod seca 233, head and foot positioners seca 418, power adapter seca 447, switch-mode power adapter seca 400

 **Compatible with** all EMR systems
and EMR ready seca products.



High sides on weighing tray offer special protection from falling out.



With seca integration solutions and the press of a key, the seca 376 can transmit every measurement to a seca wireless printer or to an EMR system.

Power supplied by batteries for mobile use.



Accessories

seca 233

Measuring rod for
baby scale seca 376

The measuring rod seca 233 with integrated head and foot positioner turns the seca 376 into a complete measuring and weighing system. A single time-saving step for measuring and weighing is made possible by the easy assembly and effortless read-out of results.

- Measuring range: 35–80 cm
- Graduation: 1 mm



The optional measuring rod allows simultaneous weighing and height measurement.

Accessories

seca 418

Head and foot positioner
for baby scale seca 376

Easy and convenient: the head and foot positioner seca 418 can easily be attached to the baby scale seca 376. This accessory increases safety by securing baby at head and feet. Integrated handles also make it easier to transport the seca 376.




Head and foot positioner can be easily adjusted for all-around security.




new

seca 336 i

EMR ready baby scale with Wi-Fi function 

The seca 336 i is a reliable baby scale of proven high quality. Its ultra-modern equipment with Wi-Fi, optional digital measuring rod and the option for user and patient identification make the scale ready for immediate integration. When height and weight are simply transmitted to the EMR, workflows are made more efficient. The scale's own light weight and integrated handle round off this product.

- Capacity: 20 kg
- Graduation: 5 g < 10 kg > 10 g
- Functions: TARE, BMIF, HOLD, Auto-HOLD, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT, Confirm, Wi-Fi
- Optional: mobile carts seca 403 and seca 402, digital measuring rod seca 234, analog measuring rod seca 232 n, carrying case seca 428
- Ports: USB bar code scanner

 **Compatible with** all EMR systems and EMR ready seca products.



seca 336 i is also available with the optional analog measuring rod seca 232 n.

With the press of a key, the seca 336 i can transmit every measurement to a seca wireless printer or to an EMR system.

seca | service

For seca 336 i:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support



new

Accessories

seca 234

Digital measuring rod for baby scales seca 336 i and seca 336

The digital measuring rod simplifies measuring baby's length with its illuminated LCD display and practical adjustment knob. Its operation is easy and results are easy to read.

- Measuring range: 35–80 cm
- Graduation/printed on measuring rod: 1 mm
- Graduation/digital display: 1 mm/5 mm/10 mm (configurable)



Measuring is made easier with a digital measuring rod with clear display and transmission function.

new

Accessories

seca 232 n

Analog measuring rod for baby scales seca 336 i and seca 336

As easy to assemble as to read the display: The analog measuring rod with integrated head and foot positioners make the seca 336 i and seca 336 even more efficient as measuring and weighing are now done in a single process.

- Measuring range: 35–80 cm
- Graduation: 1 mm



The optional measuring rod permits weighing and measuring in one step.

Low weight and practical handle make transport effortless.



optimized

seca 336

Electronic baby scale III

The battery-operated scale with large, easy-to-read LCD display combine innovative technology with space-saving design. Due to its low weight and integrated handle (can also be used for hanging the scale), it is easy to transport and is quickly ready for use anywhere. The optional measuring rod seca 232 n allows measuring and weighing in one step.

- Capacity: 20 kg
- Graduation: 5 g < 10 kg > 10 g
- Functions: TARE, BMIF, HOLD, Auto-HOLD, auto weighing range switch-over, damping, automatic switch-off, confirm
- Optional: mobile carts seca 403 and seca 402, digital measuring rod seca 234, analog measuring rod seca 232 n, power adapter, carrying case seca 428



Accessories

seca 428

Carrying case for baby scales seca 336i and seca 336

The baby scales seca 336i and seca 336 can be safely and efficiently transported in this customized carrying case of water-repellent material equipped with a shoulder strap and practical padding.



The baby scale can be easily stored and transported.



seca 385 seca 384

Electronic baby scale with fine graduation, also usable as flat scale for children III

Two scales in one: the seca 385 and seca 384 baby scales with a comfortable weighing tray. In no time at all, it can be converted into a floor scale for children with a capacity of 50 kg (seca 385) or 20 kg (seca 384). The weighing tray and the base which serves as the floor scale are securely locked together, thus ensuring that the baby can be weighed absolutely safely. A further advantage of the scale is its Breast-Milk-Intake-Function which determines how much milk the baby has consumed. The robust but lightweight scale is easy to transport; self-explanatory buttons make it easy to operate.

seca 385

- Capacity: 50 kg
- Graduation: 20 g < 20 kg > 50 g
- Functions: TARE, BMIF, HOLD, weighing range switch-over, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413

seca 384

- Capacity: 20 kg
- Graduation: 10 g < 10 kg > 20 g
- Functions: TARE, BMIF, HOLD, weighing range switch-over, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413

seca added value

Baby scales that can also weigh toddlers?


There is such a thing – from seca of course. The high capacity of the seca 385 lets you weigh toddlers and children. Simply remove and set aside the weighing tray for babies and the scale is ready for heavier loads of up to 50 kilograms.



The weighing tray can be removed quickly and easily at the touch of a button.



seca 834

Electronic baby and child scale with high capacity and double use 

With its dual function, this baby scale is a small sensation: at the touch of a button, the tray can be detached quickly and easily from the base, leaving you with robust flat scales for children weighing up to 20 kg. As the two elements are securely connected, it is absolutely safe to lift and transport the scales. The softly rounded shape of the tray gives the baby a feeling of safety and security. The Breast-Milk-Intake-Function shows the exact amount of milk the baby has consumed.

- Capacity: 20 kg
- Graduation: 10 g < 10 kg > 20 g
- Functions: TARE, BMIF, HOLD, weighing range switch-over, automatic switch-off
- Optional: measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413



Thanks to the removable weighing tray, even toddlers up to 20 kilograms can be weighed.



Accessories

seca 431

Backpack for the comfortable and safe transport of the baby scale seca 384

The seca 431 was designed for comfortable and safe transport. The straps and the padding make it a versatile backpack that can also be used as a bag. The water-repellent, high-quality material keeps the baby scale seca 384 protected and dry.



Accessories


seca 413

Carrying case for baby scale seca 385, seca 384 or seca 834

With this case, baby scales seca 385, seca 384 or seca 834 can be transported comfortably and safely. The exact fit of the seca 413 provides optimum protection and the large opening facilitates the packing and unpacking of the scales. An adjustable shoulder strap makes transport easier and the water-repellent nylon surface keeps everything dry.



seca 745

Mechanical baby scale with sliding weights 

This model combines classic design with high-quality precision mechanics. Determining an exact weight is child's play, thanks to the smooth movement of precise sliders. The gently curved weighing tray keeps the baby safe during every step of the weighing process. The resetting function that puts the scale back to zero lets the user reliably determine net weight. Before the baby is weighed, the weight of soft padding in the tray or of the baby's diaper can be deducted from the gross weight with use of the reset-to-zero function. The impact-resistant and scratchproof finish makes it easy to care for the seca 745 and contributes to the scale's guaranteed long service life.

- Capacity: 16 kg
- Graduation: 10 g
- Functions: reset-to-zero function



The reset-to-zero function guarantees reliable determination of net weight by simply deducting the extra weight of padding or diaper.

PEDIATRIC MEASURING SYSTEMS

Adaptable devices are preferred.



► Clinics, medical practices and health care facilities have varied conditions and requirements. seca responds with a wide range of products for pediatrics – from the infantometer to measuring mat and from measuring rods to the head circumference measuring tape. seca has the right solution for every application, whether the devices are for in-patient or mobile use, in large or small spaces, for everyday or infrequent use. They all share the renowned seca quality which always lives up to the most demanding medical requirements.



The unique V-shape automatically places the baby in the right measuring position.

seca 416

Infantometer for measuring babies and toddlers

The sturdy construction and stability of the infantometer makes it quick and easy to measure babies and toddlers up to two years old. The board is generously designed and the raised and softly rounded sides guide the baby easily and safely into the right position. Permanently mounted with rollers on two guide rails, the footpiece slides smoothly along the scale. Because the footpiece is lockable, the baby can be removed and the result noted later. All parts are tough and durable.

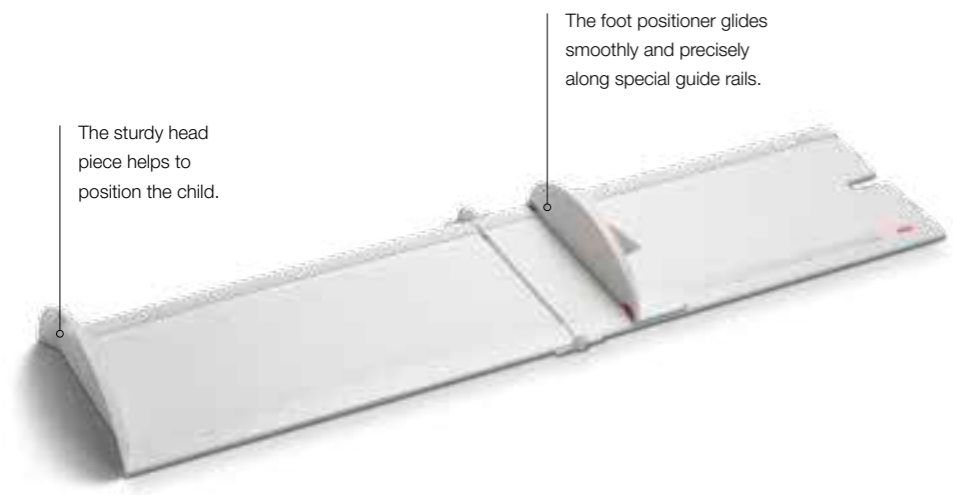
- Measuring range: 33–100 cm
- Graduation: 1 mm



The foot positioner locks into place to capture results.

seca added value

An infantometer with a lock-in-place footpiece? There is such a thing – from seca of course. The footpiece on the infantometer seca 416 smoothly slides into position, but cannot be displaced by baby's stomping feet. With the footpiece firmly in place, you can simply measure and read the results. No more readjustments made necessary by a restless baby.



The sturdy head piece helps to position the child.

The foot positioner glides smoothly and precisely along special guide rails.

seca 417

Light, space saving and stable measuring board also ideal for mobile use

The seca 417's fold-up mechanism and low weight make it compact and easy to transport. For all that, the removable foot stop is securely guided along rails. The measuring board is simple to use and, thanks to its smooth surface, easy to clean. Durability and a long service life are guaranteed by high-quality materials.

- Measuring range: 10–100 cm
- Graduation: 1 mm
- Optional: baby scales seca 385, seca 384 and seca 834, backpack seca 409 or carrying case seca 414 (each for combination with baby scale) and seca 412



The high-quality folding mechanism guarantees a long service life.



The measurement results are easy to read from the large scale.



Accessories



Possible combination

seca 412

Carrying case for measuring board seca 417

Thanks to its folding mechanism, the mobile measuring board can be stored away compactly and easily transported in this tailor-made carrying case. The robust finish and the durable, water-repellent surface make the bag an indispensable accessory for measuring board seca 417.

seca 385/384/834, seca 417 and seca 414

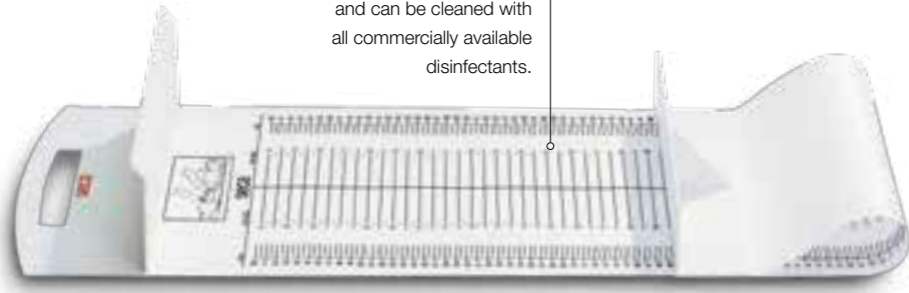
The mobile measuring and weighing system for babies and toddlers

Easy-to-use, space-saving, mobile: the mobile measuring and weighing system by seca. To weigh and measure babies and toddlers in a lying position, with double-use baby scale seca 385, seca 384 or seca 834 and the measuring board seca 417. Packed in the carrying case seca 414 for simple, lightweight and convenient transport.



reddot design award

Although rugged, the surface is easy to care for and can be cleaned with all commercially available disinfectants.



seca 210

Mobile measuring mat for babies and toddlers

The seca 210 is a lightweight and space-saving solution for precise measurement of the length of babies and toddlers while lying down. While kind to the skin, the seca 210 is washable and foldable. The fixed head piece and the sliding foot positioner make it simple to use.

- Measuring range: 10–99 cm
- Graduation: 5 mm
- Optional: backpack seca 409 (for combination with baby scales), carrying case seca 414



The measuring mat can be rolled up for space-saving storage.



The scale's high-quality printing is also tear-resistant. Measurements are precisely displayed and easy to read even after years of use.



optimized

seca 207

Baby measuring rod with large calipers

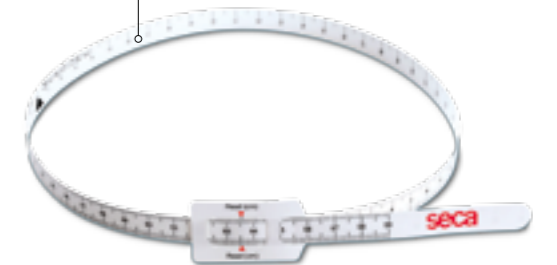
For precise measuring when a baby is lying down. The measuring rod can be firmly screwed to the changing table (wall mounting also possible) or used as a mobile rod. Large head and foot positioners make it easy to determine the length and the calipers fold for ease of storage. Made of aluminum for durability.

- Measuring range: 0–99 cm
- Graduation: 1 mm



Movable calipers at one end of the measuring rod make this instrument suitable for use with both babies and toddlers.

A scale on each side permits measuring of head circumference and facial symmetry.



seca 212

Reusable measuring tape for head circumference of babies and toddlers

The measuring tape is made of non-stretch material and measures both the head circumference (front side) and the symmetry of the face (reverse side). A practical dispenser (containing 15 tapes) ensures that they are stored safely.

- Measuring range: 3–59 cm
- Graduation: 1 mm



15 pcs. per unit



Precise and easy-to-read measurements made possible by clear red markings.



seca 218

Disposable measuring tape in practical wall dispenser

The environmentally friendly and high-quality disposable measuring tapes simplify your hectic routine work. They can be individually removed from the practical wall dispenser for hygienic use. The wall dispenser is space-saving as well as easy to install and refill.

- Measuring range: 0–100 cm
- Graduation: 1 mm



500/1,000 pcs. per unit



Extra space to write down name, height, weight and date.

Simple refilling of up to 100 measuring tapes.



seca 211

Disposable measuring tape for head circumference in practical wall dispenser

The seca 211 measuring tapes are designed to be user-friendly and easy to read with clearly visible measuring points to ensure precise results. The strength of the tape is optimal for easy tearing and refilling. The measuring tapes are recyclable and therefore environmentally friendly. The wall dispenser can be easily installed anywhere.

- Measuring range: 12–59 cm
- Graduation: 1 mm



500/1,000 pcs. per unit



The seca 211 and seca 218 are available in a pack of 500 (with dispenser) or 1,000 pieces.





MEDICAL BODY COMPOSITION ANALYZER

Where BMI ends, the seca
medical Body Composition
Analyzer begin.

- ▶ Size and weight alone are not enough for a more extensive analysis of a patient's body composition. What about fat, muscle and water content? All of these are important indicators of serious diseases. This is precisely why we at seca developed medical Body Composition Analyzers, which provide all of these values and have been validated against the medical science gold standard*: It is thereby possible to determine the fat mass, visceral fat, extracellular and intracellular water or the skeletal muscle mass in a medically precise way. In short: The seca mBCA analyzers are innovative instruments for the support of diagnosis and therapy control and enable successful patient consultations.


* Studies:
Bosy-Westphal A, Schautz B, Later W, Kehayias JJ, Gallagher D. What makes a BIA equation unique?
Validity of eight-electrode multifrequency BIA to estimate body composition in a healthy adult population. Eur J Clin Nutr 2013; 67: 14-21; doi:10.1038/ejcn.2012.160

seca mBCA 515

Medical Body Composition Analyzer for determining body composition while standing 

The seca mBCA 515 is a medical Body Composition Analyzer, which is ideally adapted to the working conditions in hospitals and medical practices. After all, in order to obtain a truly meaningful Bioelectrical Impedance Analysis (BIA), we need to look beyond the many technical requirements. A faster and simpler way to ascertain body composition, e.g., body fat and water, also has to be ensured. For another, the measurement results have to be reproducible under normal clinical working conditions. These exact considerations went into the development of the seca mBCA 515.

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Medical device class: IIa
- Display type: 8.4" touchscreen display, can be rotated 360°
- Interfaces: seca 360° wireless, USB 2.0, Ethernet
- Measurement method: 8-point Bioelectrical Impedance Analysis
- Measurement current: 100 µA
- Measurement time, normal mode: 17 seconds

 **Compatible with** all EMR systems and EMR ready seca products.

The integrated touch-screen display not only allows you to enter patient data; it also enables you to monitor the progress of the measurement and conveniently analyze the results from many different perspectives.

 **EMR Integration**



seca | service

For seca mBCA 515:

- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service



Data and measurements are sent to the PC software and from there integrated in the EMR system via the internal network.



Hand-held electrodes prevent measurement errors and ensure that results are always reproducible.

The large, easy-access, fast-cleaning, safety glass weighing platform is suitable for use by patients weighing up to 300 kg.

The clearly organized presentation of all measurement results simplifies diagnosis and thereby the patient consultation as well. The pressure-sensitive technology enables the menu to be operated even while wearing gloves or under a protective covering.

 **EMR Integration**



The measuring mat is a true multifunctional tool. It is powered by its own rechargeable battery that is charged by induction and therefore operated fully self-sufficiently. The measured data is transferred to the monitor via a Wi-Fi signal.


seca mBCA 525

Medical Body Composition Analyzer for determining body composition while lying down

The seca mBCA 525 is the mobile solution for Bioelectrical Impedance Analysis (BIA). Its low weight, good handling and precise measurement technology make it very efficient and versatile. Its technology is one-of-a-kind in the world because fat mass, muscle mass, and body water are determined with a newly developed measuring mat. It is automatically networked by Wi-Fi to the touchscreen monitor, which can store up to 100,000 measurements. This enables many patients to be measured and courses of therapy to be reliably documented for years.

- Weight: 3 kg
- Electrode type: adhesive electrodes (PVC-free)
- Medical device class: IIa
- Dimensions (WxHxD): 252 x 262 x 230 mm
- Interfaces: Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology

- **Measurement method:** 8-point Bioelectrical Impedance Analysis
- **Power supply:** power adapter, rechargeable battery
- **Display type:** 7" touchscreen display
- **Measurement current:** 100 µA
- **Measurement time:** 30 seconds
- **Frequencies:** 8
- **Measured data storage:** up to 100,000 measurements
- **Housing made of flame-retardant plastic**
- **Optional:** mobile stand seca 475, carrying case seca 432

 **Compatible with** all EMR systems and EMR ready seca products.



The correct placement of the electrodes is illustrated on the measuring mat. Each measurement only begins after an automatic electrode test.



The electrodes have an Easy Snap™ mechanism and can be quickly connected with the adhesive electrodes without applying any pressure.



MEDICAL VITAL SIGNS ANALYZER

The world's first medical
Vital Signs Analyzer with
BIA measurement.

► Monitoring vital signs is a time-consuming task in hospitals and medical practices. The seca mVSA was developed to support these routine checks and makes these measurements more efficient. Measure the four vital parameters of blood pressure, SpO₂, pulse rate, and temperature in one work step using the components integrated into the spot-check-monitor. The thing that makes the seca mVSA one of a kind in the world is the additional option to measure body composition consisting of fat mass, muscle mass, and body water through a Bioelectrical Impedance Analysis using the integrated measuring mat. You can measure the most important parameters and gain deeper insights into the health status of your patients. You thereby save time and gain additional certainty for the preparation of diagnoses and therapies.



Four vital signs and BIA – ideal for a more in-depth body composition analysis and informed diagnoses.

seca mVSA 535

Spot-check-monitor for customized configuration

You can now measure more parameters in a routine check and broaden your diagnostic and therapeutic options through the combined determination of BIA and vital signs. The high-performance software communicates with any network and guarantees the error-free transmission of all measurement values to your EMR system. seca offers the spot-check-monitor with the Bioelectrical Impedance Analysis function in many interesting configurations as a one-of-a-kind device worldwide. An update for the seca mBCA 525 is also possible across all product ranges.

- Included**
- NIBP
- Selectable**
- Masimo SET SpO₂ or seca SpO₂ technology
 - In-ear thermometer or oral/axillary, rectal temperature probe
 - seca mBCA 531 BIA measuring mat
- Optional**
- seca 475 rolling stand

Compatible with all EMR systems and EMR ready seca products.



Simple scanning of the patient ID using a USB scanner in order to avoid mix-ups with patient assignment and transmission errors.

It is also possible to measure the vital parameters of children – no additional device required.



The integrated rechargeable battery and the stand guarantee high mobility and independence. Therefore it is not necessary to connect it to an external power source during the work day.

The sophisticated concept enables the simple removal and clean storage of all components.



Accessories

seca mVSA 526

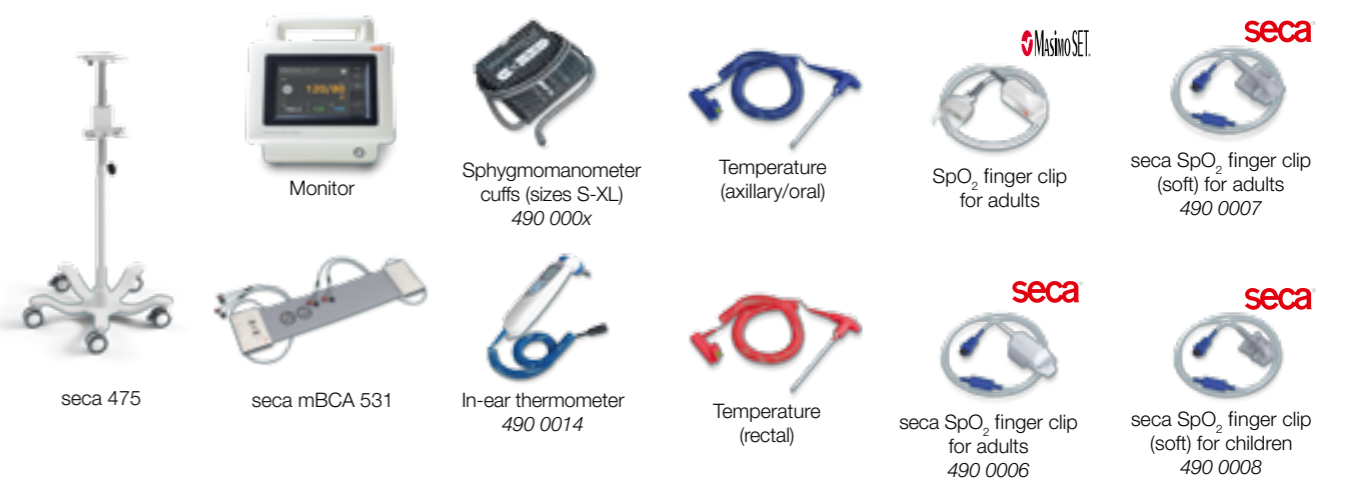
Smart Bucket for the seca mBCA 525*

The Smart Bucket for the seca mVSA 526 combines the most advanced medical measurement technology with well thought-out cable management. Its processor processes the four conventional vital signs of blood pressure, SpO₂, pulse rate, and temperature as well as the parameters of an entire body composition analysis consisting of fat, water, and muscle content and presents the measurement results on a separately available monitor.

- Included**
- NIBP
- Selectable**
- Masimo SET SpO₂ or seca SpO₂ technology
 - In-ear thermometer or oral/axillary, rectal temperature probe
 - seca mBCA 525



Components



* All seca mBCA 525 with serial number > 10000000090505 can be expanded with seca mVSA 526.



MEASURING STATIONS AND COLUMN SCALES

What can a scale do
besides weigh? Think.


- ▶ The measuring stations and column scales by seca are distinguished by high precision and many features that simplify everyday medical work. Routine procedures are shortened, measuring and weighing are sped up and measurements from some products are transmitted to an EMR system or wireless printer. Thus, doctors and nurses always have the data they need at hand, even the minor details like intuitive operation or easy cleaning of the platforms get a lot of attention at seca.

MEASURING STATIONS

Measuring and weighing in a single step.

optimized

seca 287

EMR ready ultrasonic measuring station for height and weight with voice guidance 


With the seca 287 we have redefined the technical limit of our measuring stations. Three pairs of ultrasonic sensors record the patient's height in milliseconds. The regular Auto-calibration ensures precise results. Everything is calculated using a specially developed digital analysis algorithm that ensures an incomparably high degree of measurement precision. The optionally activated/deactivated voice guidance is programmed for independent measurement so that individual and series measurements can be made reliably, precisely and fully automated. The seca ultrasonic sensors deliver reliably precise measurement results even in continuous operation, whereby the entire measurement is very comfortable due to the silent acoustics. Everything – from voice guidance and EMR system integration to the practical printout of measurement results – is designed to provide maximum support of automated measurement.

Scale:

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: Pre-TARE, mother/child-function, HOLD, Auto-HOLD, Auto-BMI, CLEAR, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 287 dp with directprint function available

Length measurement:

- Measuring range: 60–210 cm
- Graduation: 1 mm
- Ultrasonic technology: 3 pairs of sensors (3 receivers, 3 transmitters)
- Auto-calibration
- Optional: interface module seca 452 and seca 456, wireless printer advanced seca 466 and printer holder seca 482, wireless printer seca 465 and printer holder seca 481

 **Compatible with** all EMR systems and EMR ready seca products.



 **EMR Integration**

The digital touchscreen display can be easily operated by medical specialists but also has a keylock to prevent patients from accidentally changing the settings.



Three unique pairs of sensors transmit and receive ultrasonic signals separately and thereby ensure the most precise measurement results.

The interface module seca 452 makes it possible to integrate measurements directly in EMR systems.

seca added value

Height, weight, and BMI – automatically determine, display, and send? This revolution from seca takes care of everything at once. The seca 287 works fully automatically and sends all measurement results to the printer or EMR. Trust in the 177 years of experience in German medical engineering and increase your flexibility.


seca | service

For seca 287:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

► The measuring stations by seca are a big help in everyday medical work. Thanks to the combination of measuring rod and scale, height and weight can be digitally obtained in a single procedure. There's no longer any effort involved in figuring out the BMI. Once the patient's height has been confirmed, the BMI appears in the display.

seca 285

EMR ready measuring station for body height and weight 


The EMR ready measuring station seca 285 allows measuring and weighing to be done in one step. Other benefits include the high-capacity scale integrated in a stable glass platform, the heel positioner and the solid headpiece with the integrated seca Frankfurt Line – for precise head positioning. The seca 285 is equipped with two displays, one is for a direct read-out of height from the headpiece and the other, a three-line multi-function touch display that shows height, weight and the automatically calculated BMI. On top of all that, the scale has a fine graduation of 50 g that lets the user detect even slight changes in the patient's weight.

Scale:

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: Pre-TARE, mother/child-function, HOLD, Auto-HOLD, Auto-BMI, CLEAR, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 285 dp with directprint function available

Measuring rod:

- Measuring range: 30–220 cm
- Graduation: 1 mm
- Functions headpiece: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT
- Optional: interface module seca 452 and seca 456, wireless printer advanced seca 466 and printer holder seca 482, wireless printer seca 465 and printer holder seca 481

 **Compatible with** all EMR systems and EMR ready seca products.

seca | service

For seca 285:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

The measured height is shown in the display on the headpiece.



 EMR Integration

It takes just the press of a key on the multi-function touch display to send the measurements to a seca wireless printer or EMR. No need to worry about fingerprints – the touch display is very easy to clean.



The Frankfurt Line, which is offered only by seca, makes sure the patient's head is in exactly the right position.

The stable glass platform with integrated heel positioner guarantees precise measurement results and a secure foothold, even on a free-standing scale in the middle of the room.



seca 287 dp

seca 285 dp

 EMR Integration

 EMR Integration


optimized

seca directprint versions



Obtain an easy-to-read one page printout with your patients measurements.

seca 287 dp seca 285 dp

EMR ready measuring station for height and weight with directprint function 

The seca directprint is the ideal tool for raising awareness of maintaining a healthy weight. It doesn't just tell your patient's their height, weight and BMI, it also gathers together their measurements with lots of sound information and tips in an easy-to-read one page printout. In seconds, it provides the ideal ice-breaker for your overweight patients because it draws attention to the subject of overweight and obesity without direct confrontation.

COLUMN SCALES

Help, wherever they can.



seca | service

For seca 704:


- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca added value

A column scale that can receive height measurements and then calculate the BMI? There is such a thing – from seca, of course. With the help of the seca integration solutions the seca 704 can receive data from an EMR ready stadiometer (seca 274 or seca 264) and then automatically calculate the BMI from height and weight. Do the results need to be sent wirelessly to an EMR system or wireless printer? It's as easy as pressing the function key.


► After 177 years, it's nearly impossible to imagine the medical field without seca scales. Thanks to the high precision, durable construction, and robust electronics, it is clear that there are precise details that go into every seca scale. Details like unmatched low energy consumption or smooth-rolling castors, make for effortless transport into the next room.

seca 704

EMR ready column scale with capacity up to 300 kilograms 

Weighing small children to obese patients – the seca 704 can do it all. Especially when it comes to finding out BMI and height. Then there are two options: integrate a mechanical measuring rod or receive data wirelessly from a separate digital stadiometer. Other advantages include the high load bearing capacity of up to 300 kg for heavyweight patients, the large and flat platform and time-saving functions Pre-TARE, HOLD, Auto-HOLD and mother/child-function. With everything primed for the future and integration in EMR.

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: TARE, Pre-TARE, mother/child-function, HOLD, Auto-HOLD, BMI, Auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- Version: seca 704 r with integrated RS232 interface
- Optional: interface module seca 452 and seca 456, measuring rod seca 220 or seca 224, power adapter seca 447, switch-mode power adapter seca 400, PC interface cable seca 451 (only for seca 704 r)

 **Compatible with** all EMR systems and EMR ready seca products.

 EMR Integration



The heavy duty cast iron base is slip resistant with an anti-tip column design.



Optional telescopic measuring rod.



Practical castors permit mobile use.




With the interface module seca 452, the seca 704 can transmit every measurement to an optional seca wireless printer or directly to an EMR system.

Measure and weigh in just one step – thanks to the integrated measuring rod.

optimized

seca 704 s

EMR ready column scale with integrated measuring rod 

Measuring and weighing in a single step – that is why the EMR ready column scale seca 704 s was developed. In addition to the patient's weight, the patient's height is also precisely measured with an integrated measuring rod up to 230 cm. The seca 704 s automatically determines the BMI from these two values. The results can immediately be sent wirelessly to a printer or EMR. Intelligent details simplify operation so the display can be operated when the patient is still standing on the scale and reading the measuring rod is easy through the printing on both sides. Using the time-saving TARE function, also known as the mother/child-function in pediatrics, the child can be weighed in its mother's arms without disturbance. The previously stored body weight of the mother is subtracted so that only the weight of the child is obtained. The heel positioner also makes reproducible height measurements possible by means of 3-point measurement.


 EMR Integration

Scale:

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: TARE, Pre-TARE, mother/child-function, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: interface module seca 452 and seca 456, head positioner seca 430, power adapter seca 447, switch-mode power adapter seca 400

Measuring rod:

- Measuring range: 6–230 cm
- Graduation: 1 mm

 **Compatible with** all EMR systems and EMR ready seca products.



It's very easy to read the numbers printed on the side.



Practical castors permit mobile use.

seca | service

For seca 704 s:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca 799

Electronic column scale with BMI function 

Versatile, low-maintenance and site-independent with eco-nomic battery operation – the seca 799 is ideal for daily use in hospitals and doctors' practices. With its transport castors, the column scale is also easy to move around. The seca 799 is equipped with several intelligent functions. For example, the BMI function permits a reliable evaluation of the nutritional condition of the patient. The column scale can also be fitted with the optional measuring rod seca 220 or seca 224 so that both height and weight can be determined in just one time-saving step.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: TARE, HOLD, BMI, weighing range switch-over, automatic switch-off
- Optional: measuring rod seca 220 or seca 224, power adapter seca 447, switch-mode power adapter seca 400



All it takes is the press of a key to find out BMI.



The slip resistant surface with an anti-tip column design guarantees a safe and secure foothold.



optimized

Accessories

seca 224

Side-mounted telescopic measuring rod for seca column scales


This telescopic measuring rod can be fitted to many existing seca column scales. Its side mounting position means the measuring piece is always positioned centrally and above the head, even with overweight patients, thus enabling trouble-free measurement.

- Measuring range: 60–200 cm
- Graduation: 1 mm
- Optional: head positioner seca 430



The optional telescopic measuring rod on many seca column scales allows simultaneous measuring and weighing.

seca 711

Mechanical column scale with eye-level beam 

With a capacity of 220 kg, this mechanical column scale is the ideal solution for weighing even overweight patients. This is due partly to the generously proportioned, low platform. The scale is printed on both sides to allow both the patient and the user behind the scale to read the weight. The high-quality base is made of cast iron, the column from steel – this guarantees not only firm footing, but also a long service life. The column scale can also optionally be fitted with the seca 220 measuring rod.

- Capacity: 220 kg
- Graduation: 100 g
- Functions: reset-to-zero function
- Optional: measuring rod seca 220



optimized Accessories

seca 220

Telescopic measuring rod for seca column scales

This telescopic measuring rod can be fitted at any time to many seca column scales. It has the same convenient eye-level read out even for taller patients.

- Measuring range: 60–200 cm
- Graduation: 1 mm
- Optional: head positioner seca 430



The optional measuring rod allows convenient weighing and measuring in one step.



The scale is printed on both sides so that both the patient and the user can read the weight.



The broad and flat construction provides easy step-on access and a firm foothold.

seca 756

Mechanical column scale with BMI display 

The seca 756 is one of the first mechanical column scales which displays weight and the nutritional condition of the patient with the BMI function. When the patient steps onto the scale, a BMI disc of contrasting color is set in motion below the very precise weight display on the large, clear dial. It is visible in a small window next to which a height scale is printed. Once the weight has been determined, it is easy to read the BMI range which, with contrasting colors, is split up into underweight, normal, overweight and obesity (abnormally overweight). A flat tread area and practical transport castors are further advantages of the seca 756. The column scale is also available with measuring rod.

- Capacity: 160 kg
- Graduation: 500 g
- Functions: BMI, reset-to-zero function
- Optional: measuring rod seca 224



The separately available measuring rod permits simultaneous measuring and weighing.



It is easy to determine BMI with the color-coded dial.



FLAT SCALES

Even space-saving
do plenty for the patient.

- ▶ Where space is limited, there is still enough room for seca scales and their many functions. Routine medical work is made easier. Other features of seca flat scales include the high weight-bearing capacity of up to 300 kilograms and the extremely long usage, powered by a battery set. Practical accessories such as carrying cases and a stand for a separate display, make work easier for the user.



The extra-large platform is easy to step onto and slip proof.



seca 635

EMR ready platform and bariatric scale

Obesity is the fastest growing health problem in the world. This battery-operated digital scale was specially developed to weigh obese patients, with a weighing range of up to 300 kg and a sturdy, non-slip 56 x 56 cm platform that is just 5.5 cm high. Patients also may be weighed while seated; the weight of the chair is simply deducted with the Pre-TARE function. The cable remote display (cable length: 2.5 m) with easy-to-read LCD can be held, mounted on a wall or placed on a table. The 100 g graduation registers the slightest weight changes even after the patient has left the scale, thanks to the HOLD function. The integrated Body Mass Index (BMI) function and the simple transmission of measurements to an EMR system further enhance the versatile use of this unique multifunctional scale.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Version: seca 635 r with integrated RS232 interface
- Optional: interface module seca 452 and seca 456, stand for cable remote display seca 472, power adapter seca 447, switch-mode power adapter seca 400, PC interface cable seca 451 (only for seca 635 r)

Compatible with all EMR systems and EMR ready seca products.

seca | service

For seca 635:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca added value

Flat scales for heavy weight patients with a separate display element? There is such a thing – from seca of course. It is the platform and bariatric scale seca 635. The advantage of the mobile display provides medical staff with the ability to read the results from any location – discreetly and conveniently at a desk, at eye-level on the wall or from a stand in the middle of the room.



The patient's BMI can be determined when their height is entered.

It's easy to step onto the extra large, slip proof platform.



Accessories

seca 472

Stand for cable remote display of seca scales

The seca 472 stand is the stable solution for cable remote displays of seca 635, seca 657 and seca 675 scales. The sturdy construction with non-slip steel feet can be positioned anywhere quickly and securely. The display element can easily be attached to the stand by means of a stable bracket.

With padded sides for completely safe transportation.



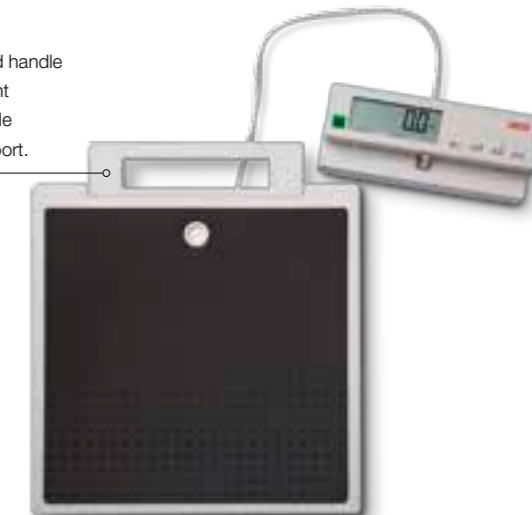
Accessories

seca 421

Carrying case

This carrying case is made from water-repellent material to allow safe transportation of the seca 899 flat scale. The handy side pocket also allows safe transportation of a cable remote display or other accessories.

The integrated handle and low weight make this scale easy to transport.



seca 899

Flat scale with cable remote display

A two-meter long cable connects the display with the weighing base. Advantage: the display can be set up separately from the base and read from its position on the wall or desk. Additional convenience is supplied by the many extra weighing functions: BMI for nutritional conditions, HOLD to keep measurements displayed and TARE for weighing small children held in an adult's arms. It is suitable for stationary or mobile use thanks to its handle, compact size, low weight and a leveling base for set-up on all types of surfaces.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: TARE, HOLD, BMI, automatic switch-off
- Optional: stadiometer seca 217 combined with adapter element seca 437, power adapter seca 447, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 421



The angle of the display can be adjusted for easy reading and can be used separately from the base.



Both doctor and patient can see the result at the same time in the double display.

seca 878

Flat scale for mobile use with push buttons and double display

The seca 878 can do everything that a scale in mobile use should do and more. It is light, extremely robust, easy to operate, provides precise measurements in any level of humidity and has a long battery life – or can alternatively be connected to the mains. When conducting one examination after the other, there's no need to bend over repeatedly, thanks to the push button that can be turned on and off with a toe tap. The double display lets the patient and medical personnel read the results from two different aspects at the same time. Thanks to the 2-in-1-button, the scale can weigh a child held in its parent's arms.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: mother/child-function, HOLD, automatic switch-off
- Battery-operated or using power adapter
- Optional: stadiometer seca 217 combined with adapter element seca 437, power adapter seca 447, switch-mode power adapter seca 400, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 415



The two push buttons on the front side of the scale can be operated with the foot.



Accessories

seca 409

Backpack for varied use

Those who transport their devices as a mobile nurse or midwife have clear material requirements. The multifunctional backpack seca 409 was therefore developed out of high-quality and water-repellent materials in cooperation with UNICEF. Wide, padded shoulder straps and carrying handles made it comfortable to carry and guarantee a high amount of comfort even on longer trips. Baby scales, flat scales, or measuring boards can thereby be transported easily and especially safe in various possible combinations.

seca added value

A mobile measuring and weighing system?

There is such a thing – from seca of course. With the addition of the adapter element seca 437 for the measuring rod seca 217, the flat scale seca 878 turns into a mobile and very stable 2-in-1-solution. Measuring and weighing can be done at the same time – with the same quality as with permanently installed equipment. When stored in the carrying case seca 414, the mobile measuring and weighing system can be used anywhere.



Possible combination

seca 878, seca 217, seca 437 and seca 414

Mobile measuring and weighing system for schoolchildren and adults

To determine height and weight of school children and adults in a standing position, a special adapter element turns the stadiometer and flat scale into a perfect measuring and weighing station. It delivers two measurements in one step – with the same quality found in hospitals. Even though the elements are lightweight and easily assembled, the system is extremely stable and warp-resistant. Almost like a permanent installation.



The low weight of only 4.2 kilograms makes mobile use possible.



The custom label serves to provide individual personalization.

seca 877

Flat scale for mobile use

Scales intended for mobile use have to be lightweight. The compact seca 877 weighs only 4.2 kilograms, nevertheless very stable and suitable for patients weighing up to 200 kilograms. It stands firmly on four leveling bases that guarantee stability, even when small children are weighed while held by an adult. The mother/child-function ascertains the tare of the weight with just the touch of a button.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: mother/child-function, tip-on automatic switch-on, automatic switch-off
- Optional: stadiometer seca 217 combined with adapter element seca 437, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 415



Tip-on function for weighing without turning on the scales.

seca 878 dr

Doctor's scale with customizable label

The design and the name speak a common language. The seca 878 dr is the new flat scale standard for doctors in medical practices. Your advantages include the foot-operated on/off switch and the user-friendly dual LCD display that can be read simultaneously by doctor and patient. Weighing children is simplified by activation of the mother/child-function. The specially developed doctor's scale, which is subject to very strict quality requirements in its manufacture, reliably delivers accurate data. With top quality and medical precision combined in a compact, modern design, the seca 878 dr is perfectly aligned to the needs of today's medical practices.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: mother/child-function, HOLD, automatic switch-off
- Battery-operated or using power adapter
- Optional: customizable label seca 478 at www.seca.com/doctorscale



The two buttons on the front side of the scale can be easily operated by foot.



The face of the dial is especially large to make reading the figures much easier.

seca 761

Mechanical personal scale

The precise design classic has a large clear and well-defined dial. With a large, low-level, non-slip platform and scratch resistant finish it is easy for the patient to step on and weigh.

- Capacity: 150 kg
- Graduation: 1 kg
- Functions: reset-to-zero function



The rugged metal housing withstands years of use under the hardest conditions imaginable.



Accessories

seca 415

Carrying case

This practical carrying case can be used to safely transport the flat scales seca 878 and seca 877.





HEIGHT MEASURING SYSTEMS

When the quality is right,
so are the measurements.


► Measuring rods and circumference measuring tapes are relatively simple devices in routine medical work – they still have to fulfill challenging clinical requirements. That's why seca produces such items as non-abrasive measurement scales and parts made of distortion-resistant anodized aluminum. For quality you can feel – in devices that transmit your data at the touch of a button and in headpieces that always glide smoothly into position and so guarantee consistently precise measurements.

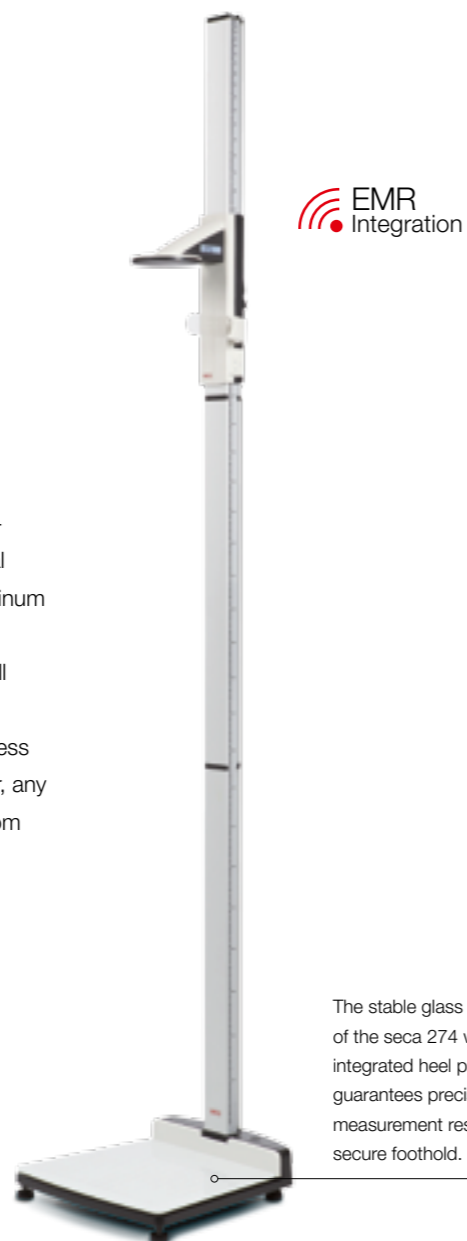
seca 274

EMR ready stadiometer for use anywhere with display on the headpiece

If you are looking for a wireless solution for taking height measurements, you cannot go wrong with the free-standing digital stadiometer seca 274. Its individual parts of high-quality aluminum can be easily assembled and tightly screwed together and its measuring range from 30 cm to 220 cm can be used for small children to adults. Additional benefits include the stable glass platform, the white backlit display on the headpiece and wireless data transmission. Data can be sent to a seca wireless printer, any EMR system or a wireless scale that can calculate the BMI from height and weight measurements.

- Measuring range: 30–220 cm
- Graduation: 1 mm
- Functions: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT
- Optional: interface module seca 456, wireless printer advanced seca 466, wireless printer seca 465

 **Compatible with** all EMR systems and EMR ready seca products.




The stable glass platform of the seca 274 with integrated heel positioner guarantees precise measurement results and a secure foothold.

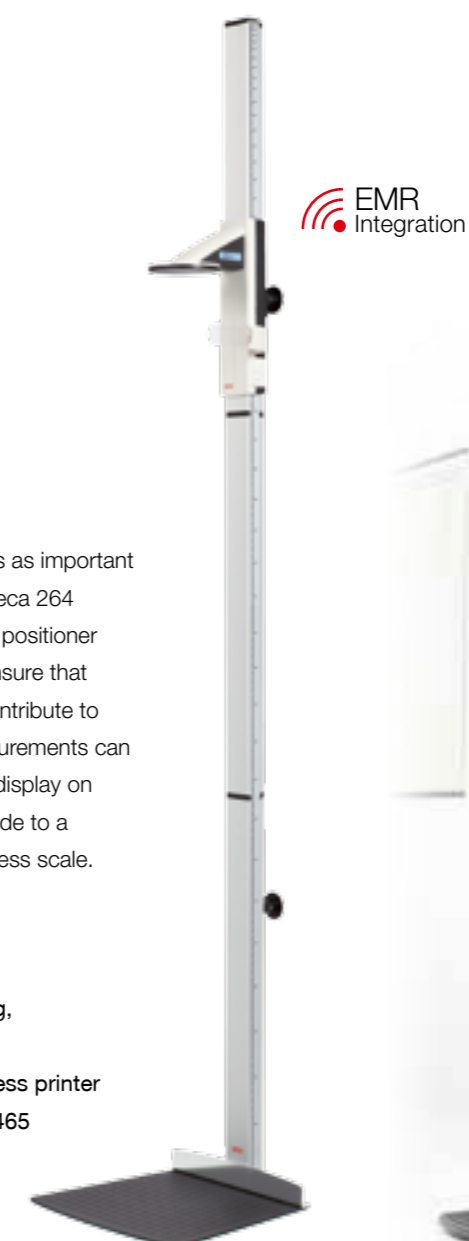
seca 264

EMR ready stadiometer for permanent use, with display on the headpiece

The goal of accomplishing more in fewer steps is as important in medicine as in other fields. The stadiometer seca 264 helps make that possible. For example, the heel positioner and the seca Frankfurt Line on the headpiece ensure that the patient is in the right position and thereby contribute to obtaining accurate measurements. Height measurements can be read with a quick glance at the white backlit display on the headpiece. Wireless data transmission is made to a seca wireless printer, any EMR system or a wireless scale.

- Measuring range: 30–220 cm
- Graduation: 1 mm
- Functions: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT
- Optional: interface module seca 456, wireless printer advanced seca 466, wireless printer seca 465

 **Compatible with** all EMR systems and EMR ready seca products.



seca added value

A wireless stadiometer that can send its measurements to a PC? There is such a thing – from seca of course: the digital stadiometer seca 274 (free-standing) and seca 264 (for wall mounting). Both transmit the measured height to the PC, where they are analyzed by the PC software seca analytics 115. From there they can also be transmitted to an Electronic Medical Record (EMR) system.



With the patient's head precisely positioned, the seca Frankfurt Line guarantees exact measurements.

The leveling feet allow firm footing, even on uneven surfaces.



The white backlit display on the headpiece is very easy to read.

The easy-to-clean mat of the seca 264 puts the patient's feet in the right position and gives the barefoot patient a safe and comfortable footing.

seca | service

For seca 274 and seca 264:

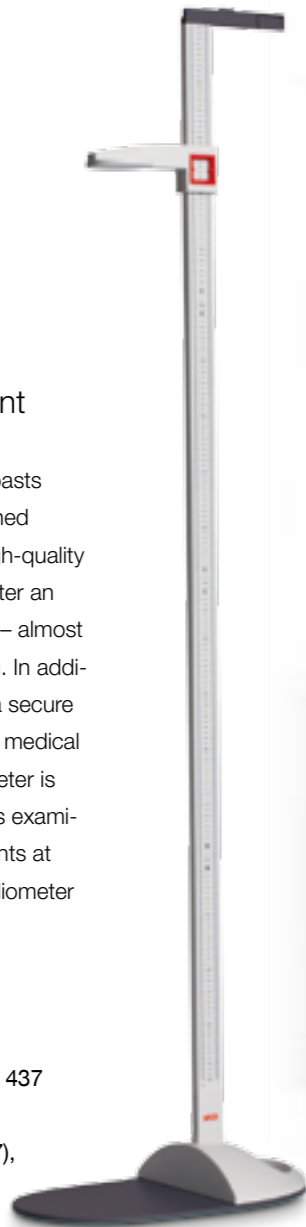
- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca 217

Stable stadiometer for mobile height measurement

The mobile stadiometer seca 217 boasts unmatched stability, a cleverly designed assembly system and particularly high-quality materials. All this lends the stadiometer an exceptionally high degree of stability – almost the same as a permanent installation. In addition, the adjustable spacer ensures a secure hold without any fittings. Suitable for medical practices and hospitals, the stadiometer is also just right for mobile use, such as examinations of children at school or patients at home. When disassembled, the stadiometer is easy to carry anywhere.

- Measuring range: 20–205 cm
- Graduation: 1 mm
- Optional: adapter element seca 437 (for combination with flat scale seca 899, seca 878 or seca 877), backpack seca 409, carrying case seca 414 or seca 412

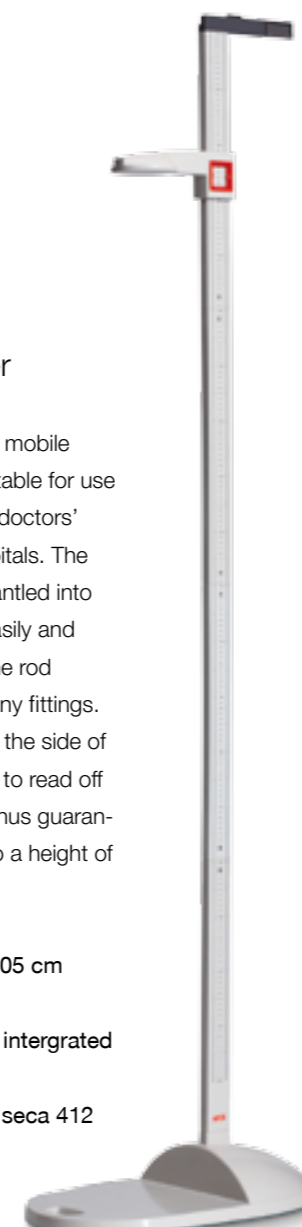


seca 213

Portable stadiometer

At only 2.4 kg, the seca 213 mobile stadiometer is especially suitable for use in the field but also ideal for doctors' practices and pediatric hospitals. The measuring rod can be dismantled into several pieces and set up easily and quickly. The spacer keeps the rod straight and stable without any fittings. As the scale is printed along the side of the measuring rod, it is easy to read off the result while measuring, thus guaranteeing precise results – up to a height of 205 cm.

- Measuring range: 20–205 cm
- Graduation: 1 mm
- Version: seca 213I with integrated level in headpiece
- Optional: carrying case seca 412

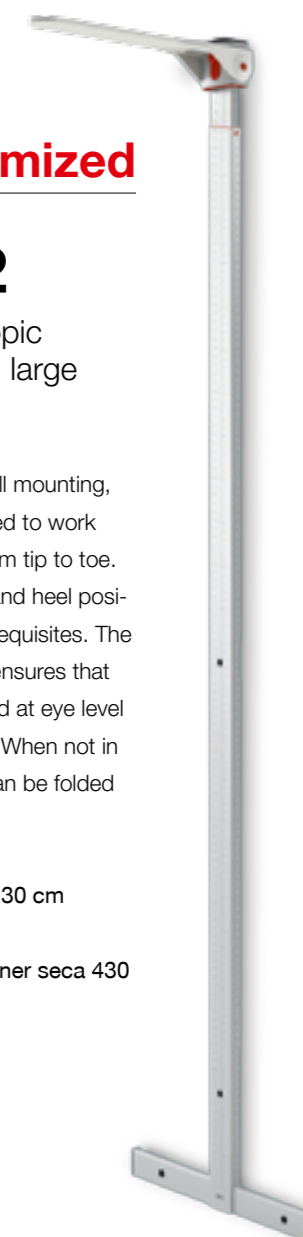


seca 222

Mechanical telescopic measuring rod with large measuring range

Specially developed for wall mounting, this measuring rod is aligned to work exactly to the millimeter from tip to toe. Its broad measuring slide and heel positioner are professional prerequisites. The telescopic measuring rod ensures that the result can be easily read at eye level even for the tallest patient. When not in use, the measuring slide can be folded down for safety.

- Measuring range: 6–230 cm
- Graduation: 1 mm
- Optional: head positioner seca 430



The spacer provides extra stability and ensures precise measurement results.



The robust base plate guarantees a sturdy stance.



The seca 437 adapter element connects the stadiometer to a flat scale.



The integrated handle and securely locking parts make the stadiometer easy to carry.



Version: The integrated level in the head-piece of the seca 213I guarantees the stadiometer stands correctly in any location.



The foot positioner ensures exact positioning and precise measurements.



New: The optional wide head positioner seca 430.



seca 216

Mechanical measuring rod for children and adults

The seca 216 has a variable scale with a range of 3.5 to 230 centimeters that is inserted into a 138 cm frame. The plastic frame is simply mounted on the wall at the desired height. As the user can choose the range shown in the frame, the seca 216 is suitable for measuring children or adults. The results are clearly displayed in a window on the side of the rod and held in place by the locking screw on the head piece. Suitable for international use, the scale is printed in centimeters on one side of the tape and centimeters and inches on the other.

- Measuring range: max. 138 cm, variable from 3.5–230 cm
- Graduation: 1 mm



Whether for children or adults – the measuring range can be adjusted as needed.

The graduation index can be fixed in place with the locking screw.

The wall mounting of the measuring tape with roll mechanism reduces space requirements drastically.



seca 206

Mechanical measuring tape

The space-saving solution with roll-up mechanism. Uncomplicated fixing on wall with just one screw. With the display window in the head piece, it's easy to read the height. The durable tape is made of metal.

- Measuring range: 0–220 cm
- Graduation: 1 mm

This high-quality scale made of metal is intended for longterm use.



seca added value

A measuring tape with two functions? There is such a thing – from seca of course.

The ergonomic measuring tape seca 203 also has a scale that determines the Waist-To-Hip-Ratio (WHR). With a single measuring instrument you can determine body circumference and get diagnostic data about health risks, such as details about the distribution of body fat.

seca 203

Ergonomic circumference measuring tape with extra Waist-To-Hip-Ratio calculator (WHR)

The measuring tape seca 203 for determination of body circumference has a highquality scale of metal used to obtain the Waist-To-Hip-Ratio (WHR). The WHR is an indirect method of determining the amount of abdominal fat tissue. The ratio allows conclusions to be drawn about the distribution of fat stores and thus contributes to a diagnosis.

- Measuring range: 0–205 cm
- Graduation: 1 mm
- Function: WHR calculator



seca 201

Ergonomic circumference measuring tape

Today's circumference tapes also have to satisfy high medical demands. That is why seca has developed the seca 201 which can measure girth with millimeter precision. The high-quality mechanics guarantee that the 205 cm long tape unwinds easily and locks in place precisely. The housing sits comfortably and securely in the user's hand and is tough enough to withstand accidental dropping.

- Measuring range: 0–205 cm
- Graduation: 1 mm





MULTIFUNCTIONAL AND WHEELCHAIR SCALES

Effortless for the patient,
easy for medical staff.


► Weighing can be a complicated process, but it doesn't have to be. The multifunctional and wheelchair scales by seca are easy to use whether the patient is sitting in a wheelchair or standing. Four load cells ensure that a patient can be measured regardless of position – standing without support or holding onto the handrail, in the middle of the scales or at the edge. There is no need for careful positioning of the patient or adjustments to the scales. The emphasis is on convenient operation with wireless data transmission to any EMR system or seca wireless printer.

seca 645

EMR ready multifunctional handrail scale III

Equipped with an extremely low-level, easy-access platform, a stable handrail, and high weight-bearing capacity, this multifunctional scale ensures safe and comfortable weighing of heavy patients. The integrated handrail provides the patient with support throughout the weighing process – or sat on a chair placed on the generous platform. The Pre-TARE function with three memory cells automatically deducts a stored weight (such as a chair) to determine net weight. Moreover, the seca 645 is made mobile by two rubber wheels and a power supply provided by rechargeable batteries or power adapter. When the scale is connected to a printer, the time of weighing and the patient's weight are automatically recorded and printed by the time module.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: interface module seca 452 and seca 456, measuring rod seca 223

 **Compatible with** all EMR systems and EMR ready seca products.



The display can be rotated in every direction.

Because the handrail is part of the weight sensitive area, measurements are absolutely sure even if the patient supports himself on it.



optimized

Accessories

seca 223

Telescopic measuring rod for handrail scales

This easy-to-fit measuring rod (fittings included) converts the handrail scale seca 645 into a real all-round talent. The determined height can be entered directly into the control unit of the seca 645 so that all relevant data is captured and used to determine the BMI.



The optional measuring rod permits measuring and weighing in one step.

- Measuring range: 6–230 cm
- Graduation: 1 mm

seca | service

For seca 645 and seca 685:


- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca 685

EMR ready multifunctional scale III

The patient can be safely and accurately weighed while standing, seated or in a wheelchair. No conversion is required. The stable handrail supports the standing patient, the integrated fold-down seat provides comfort for the seated patient, and the large platform (80 x 84 cm) accommodates a patient in a wheelchair. The weight of the wheelchair or walker is simply deducted with use of the Pre-TARE function. Special attention has been given to making the scales easy to access and safe, with a stop barrier provided for the front wheels of the wheelchair. Additional details: easy-to-read swiveling display can be turned toward patient or caregiver, the practical HOLD function shows the weighing result after the patient has left the platform, the damping function ensures precise results, the non-slip rubber coating and handrail guarantee a firm foothold and integrated transport castors make the scale mobile.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 685 r with integrated RS232 interface
- Optional: interface module seca 452 and seca 456, PC interface cable seca 451 (only for seca 685 r)

 **Compatible with** all EMR systems and EMR ready seca products.



Accessories



seca 451

PC interface cable for the multifunctional and wheelchair scales seca 685 r and seca 677 r

The optionally available PC interface cable seca 451 (female) guarantees a reliable transmission of height and weight between a seca scale and the PC.



Patient can stand or sit when being weighed.


The rotating display can be oriented towards the patient or medical personnel.

seca 677

EMR ready wheelchair scale with handrail and transport castors 

Stable, functional and mobile: thanks to its large platform and sturdy handrail, the seca 677 is extremely versatile. Patients can be weighed while sitting in a wheelchair or on a chair. The handrail provides valuable support for people who are frail or can walk only with great difficulty. Its high load capacity makes the seca 677 ideal for weighing very heavy patients. After use the scale can be folded together to save space. The sturdy locking device between rail and platform ensures that the seca 677 stands safely even when folded. The handrail also serves as handle when the scale is folded, allowing the scale to be moved around or stowed away effortlessly and quickly on its transport castors. Weighing is simple and user-friendly with the clearly designed, operable display at hip level, additional functions of TARE, Auto-HOLD, BMI and the SEND/PRINT key to transmit measurements wirelessly to a seca wireless printer or the PC.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 677 r with integrated RS232 interface
- Optional: interface module seca 452 and seca 456, PC interface cable seca 451 (only for seca 677 r)

 **Compatible with** all EMR systems and EMR ready seca products.



seca | service

For seca 677 and seca 665:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca added value


A handrail for support that doesn't falsify the measurement? There is such a thing – from seca of course. The handrail on our transportable EMR ready wheelchair scale seca 677 gives the patient a feeling of security and, thanks to its special technology, delivers accurate measurements even when the patient leans on or holds onto the handrail.



The scale can be folded for easy transport.




seca 665

EMR ready electronic wheelchair scale 

With its high capacity of 300 kg, this scale makes it easy to weigh even heavy patients. Easy access is assured by its extremely low platform. The secure side rails give additional safety. An integrated Pre-TARE function determines in seconds the net weight of the patient by utilizing internal weight memory. All the data can be transmitted wirelessly to a printer or PC immediately after weighing. The swiveling LCD with large letters is easy to read both for the patient and for the caregiver. The seca 665 can be folded up in no time and can be transported anywhere, thanks to its roller castors.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: interface module seca 452 and seca 456

 **Compatible with** all EMR systems and EMR ready seca products.



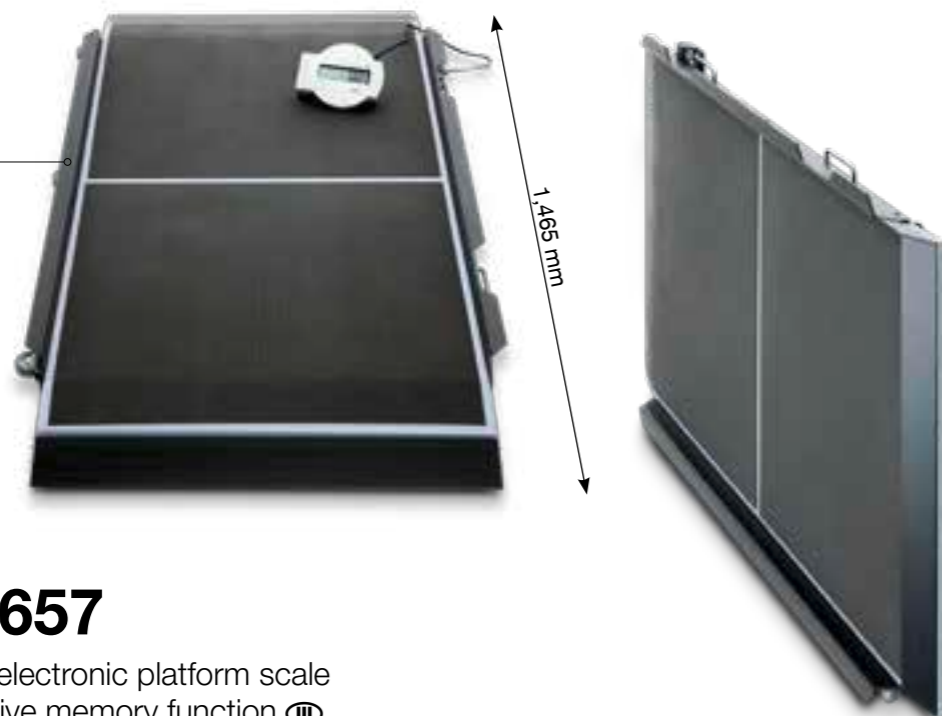
The seca 665 simply folds up and moves easily across the floor on castors.



The platform's side rails keep a wheelchair safe and secure.



With its transport castors and steering castor, the seca 657 can be maneuvered easily.



seca 657

EMR ready electronic platform scale with innovative memory function

The especially large platform of the seca 657 makes it possible to weigh patients on all commonly used stretchers. Patients can also be weighed while sitting in wheelchairs or on a chair. A unique characteristic of the seca 657 is the memory function. This practical feature helps to lighten the workload especially in the emergency unit: first the total weight of the patient and stretcher or wheelchair is determined. The stretcher or wheelchair is then weighed separately and the net weight of the patient appears automatically on the display. A cable remote display with easy-to-read LCD figures is included in delivery. This display is operated intuitively and is equipped with many additional functions. With the Pre-TARE function, the extra weight of a stretcher or wheelchair can be deducted directly from the total weight during the weighing process. With the BMI function, the nutritional condition of the patient can be determined. Thanks to its robust design and capacity of 300 kg, the seca 657 can weigh even overweight persons with no problem at all. With the practical castors and integrated handles, the seca 657 is also transportable for use in various locations.

And with the seca integration solutions, the measurements can be sent to a seca wireless printer or the PC at the push of a button.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, RESET, SEND/PRINT
- Optional: interface module seca 452 and seca 456, stand for cable remote displays seca 472

Compatible with all EMR systems and EMR ready seca products.



The free-standing display guarantees comfortable read-out of measurements.

seca | service

For seca 657:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support



A ramp for easy roll-on of wheelchairs is included in delivery.

seca 675

Electronic platform scale

This electrically-operated, generously-sized wheelchair/platform scale is multifunctional. It weighs patients in care, especially heavy patients, persons in wheelchairs and seated patients with circulatory trouble, even during dialysis. The flexible cable remote display can be placed anywhere (e.g. on a desk or table) for convenient read-out and operation of the controls. A wall mounting is also provided. Transport castors and a handle make the seca 675 mobile.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, BMI, weighing range switch-over, damping
- Optional: stand for cable remote displays seca 472, second ramp seca 470

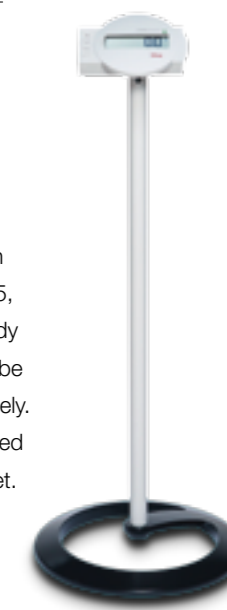


Accessories

seca 472

Stand for cable remote displays of seca scales

The seca 472 stand is the stable solution for cable remote displays of the seca 635, seca 657 and seca 675 scales. The sturdy construction with non-slip steel feet can be positioned everywhere quickly and securely. The display element can easily be attached to the stand by means of a stable bracket.



Accessories

seca 470

Second ramp for seca 675

Optional accessory: this ramp for platform scale seca 675 makes it even easier to get onto the scale with a wheelchair from both sides.



Thanks to the ramp, a wheelchair rolls easily and comfortably onto the platform.

CHAIR SCALES

Competence takes the chair.

► How can you gently and carefully weigh bedridden patients or people who are unsteady on their feet?

The best choice is a seca chair scale, which you can take directly to the patient. That saves you – and nursing staff – from unnecessary steps. And with the scale's wireless function, transmission of data to a printer or an EMR system is quick and easy.

seca | service


For seca 959:

- On-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca added value

A chair scale that weighs with a graduation of 50 grams? There is such a thing – from seca, of course. The seca 959 is the first and only EMR ready chair scale on the market that weighs with a graduation of 50 grams. The advantage of this fine graduation is particularly important in pediatrics. Now children who cannot stand on their own can be weighed precisely and accurately while seated. Furthermore, medical personnel can detect the slightest weight changes in serial measurements with the seca 959.

seca 959

EMR ready chair scale to weigh seated patients 

Care and comfort were kept in mind when designing the stable model with a circular steel tube frame. The comfortable seat provides a safe position while the swiveling armrests and adjustable footrests make the chair scale more user-friendly. The locking rear wheels ensure that it is safe to sit down and stand up at all times. The positioning of the large LCD display unit behind the chair permits intuitive operation of functions TARE, HOLD and BMI. This mobile chair scale, which can be operated by a rechargeable battery or electricity, provides enormous help in rehab, orthopedics, dialysis and nursing homes. Its fine graduation of 50 grams is particularly valuable in pediatrics, allowing small children who cannot yet stand on their own to be weighed while seated. The practical pouch seca 471 attached to the scale frame stores the power adapter.




seca 959




seca 956

seca 956

Chair scale for weighing while seated 

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g < 250 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: interface module seca 456

 **Compatible with all EMR systems and EMR ready seca products.**

With a capacity of 200 kg and a graduation of 100 grams, the seca 956 fulfills all basic medical standards. Added to that are the typical seca advantages such as fold-up armrests and footrests, secure wheel brakes, an ergonomically shaped seat and smooth rollers, which, together with the ergonomically shaped handle, make it very easy to push the chair scale. Of course the seca 956 is also equipped with the important TARE function which allows every newly added weight to be ascertained separately and the HOLD function which lets medical personnel take care of the patient first and read out the results later.

- Capacity: 200 kg
- Graduation: 100 g
- Functions: TARE, HOLD, automatic switch-off



seca 959

With its exceptionally high capacity of up to 300 kg, the BMI function and options to use mains or battery power, the chair scale seca 959 is ideal for use in any situation.



seca 956

The seca 956 is running on batteries instead of mains power, and offers a capacity of 200 kg.



seca 959

seca 956/959

The supplied carrying case provides space to store the power supply cable together with the scale.

The armrests can also be folded away to allow patients better access from the side.



seca 959

seca 956

The large footrests can be folded completely out of the way so that the patient can safely and comfortably take a seat.

The footrests can be folded away to make it easier for patients to stand up and sit down.

BED AND DIALYSIS SCALE


Every gram counts
when lying in bed.



► Our bed and dialysis scales have been carefully tested in the past by specialists and intensive care consultants in dialysis and burn units. They are now also being used to an increasing extent in nursing homes, since every gram is important in the case of immobile patients, precision is what counts. The bed and dialysis scales from seca with their alarm function can assist critical monitoring in the case of clinical procedures involving the loss of fluid or special fluid turnover, or simply in areas where patients can be weighed only in bed.



seca 985

Electronic bed and dialysis scale
with equipment trolley 

Always in use: the seca 985 facilitates the easy, gentle and precise weighing of bedridden patients and is an indispensable aid in dialysis and intensive care. Integrated lifts enable four load cells to be placed easily and effortlessly under the castors of an empty bed and the scale to be switched on. The weight of the empty bed is stored in the scale until the next time the scale is switched off. The previously determined weight of the bed (must be 250 kg or less) is deducted using the TARE function and the patient's precise weight is determined. In order to obtain the patient's measurements even if the power goes out, the bed scale is also equipped with a rechargeable battery. When not in use, the four bed lifts can be stored on the equipment trolley.

- Capacity: 500 kg
- Max. patient weight: 250 kg
- Maximum bed weight: 250 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, BMI, limit value, damping
- Optional: RS232 interface seca 460



The patented lift mechanism permits placement of the load cells without any effort.

SPECIALIZED SCALES

Small size, big help.

► As a specialist for medical measuring and weighing, seca naturally offers solutions for special medical applications. For instance, the splash-protected organ and diaper scale and the extremely precise portion and diet scale for clinical nutritionists.



The stainless steel surface is tough and easy to clean.



seca 856

Electronic organ and diaper scale with stainless steel cover

The organ scale seca 856 has been designed to meet the specific requirements in its area of application. The raised display is protected from soiling by fluids and the specially sealed battery compartment keeps moisture away from the electronic parts. This scale also fulfills tough hygienic standards with a sealed stainless steel surface that's easy to clean. With the aid of the Pre-TARE function, the additional weight of containers can simply be deducted for precise determination of net weight. The fine one-gram graduation ensures highly precise results.

- Capacity: 5 kg
- Graduation: 1 g < 3 kg > 2 g
- Functions: TARE, Pre-TARE, HOLD, automatic switch-off



The smooth food-safe surface allows easy cleaning of the bowl.



seca 852

Digital portion and diet scale

Operation of these scales with the TARE function is wonderfully simple. It can be repeatedly reset to zero, regardless of how many ingredients are already in the bowl. The scales and bowl are so perfectly matched that the scales simply slip into the bowl for storage.

- Capacity: 3 kg
- Graduation: 1 g
- Functions: TARE, automatic switch-off



In storage too the scale and bowl have a perfect connection.



The fine graduation to just one gram permits precise weighing.

WIRELESS PRINTERS

seca printers don't just print – they also assist with analysis.




► Measurements received from the seca EMR ready products can be printed out by seca wireless thermal printers. The printers also assist with the analysis and interpretation of the data by presenting BMI in graphic displays and comparing growth percentiles of children with the relevant statistical norms.

seca 466

Wireless printer advanced for reception, analysis and printing of measurements on thermal paper or labels

With the wireless printer advanced seca 466 with integrated automatic cutting tool, measurements transmitted by the seca EMR ready products can be printed quickly onto thermal paper or labels, which are then automatically separated. It also handles the automatic interpretation and analysis of results. The printer formats a graph of weight, height and BMI and compares the findings to standard ranges. The required reference values, which are on a separate memory card, can be configured easily with the seca print designer software. Other data such as the date and time format, language and the hospital or doctor's practice logo are processed in the same way.

- Print speed: 80 mm/sec
- Functions: print-out of height, weight, BMI, resting or total energy expenditure or percentiles for children, integrated automatic cutter
- Optional: 5 or 50 rolls of thermal paper seca 485, 1 or 24 rolls of labels seca 486
- Included with printer: SD smart card, power adapter, SD card reader, 1 roll of thermal paper, 1 roll of labels

 **Compatible with** all EMR systems and EMR ready seca products.




Height, weight, BMI, resting energy expenditure, total energy expenditure or percentiles for children – in the layout file you can choose the information you want.

seca 465

Wireless printer for analysis and printing of transmitted measurements on thermal paper

The seca 465 wireless printer is exactly the right partner for wireless measuring rods and scales by seca. Via its wireless receiver and pre-configured SD smart card, the printer receives the measurements transmitted by seca devices and analyzes the data. The printer compares height and weight to reference values as defined by WHO, CDC and Kromeyer-Hauschild et al., and ascertains percentiles for children. Resting energy expenditure and total energy expenditure based on parameters of gender, age and PAL (Physical Activity Level) are also calculated. As needed, Body Mass Index (BMI) or Body Fat Rate (BFR) can be analyzed and printed.

- Print speed: 80 mm/sec
- Functions: print-out of height, weight, BMI, resting or total energy expenditure or percentiles for children
- Optional: 5 or 50 rolls of thermal paper seca 485
- Included with printer: SD smart card, power adapter, SD card reader, 1 roll of thermal paper

 **Compatible with** all EMR systems and EMR ready seca products.



The seca print designer software lets you integrate the logo used by the hospital/practice in the print-out. Or you can specify in which language the information should be printed.

SOFTWARE

Analyze and transmit.
This solution gives you
more out of measuring.



► With the software application seca emr flash 101, EMR ready seca products can transmit their results directly to any EMR system. The software is 100 % compatible with all the EMR systems currently on the market. The software seca analytics 115 goes a step further by analyzing and interpreting the weight and height data and the measurements from the seca mVSA and seca mBCA using 7 analysis modules. This process supports the doctor with early detection of disease, documentation tasks, and therapy success, as well as patient consultation.


seca analytics 115

Medical PC software for
diagnostic assistance

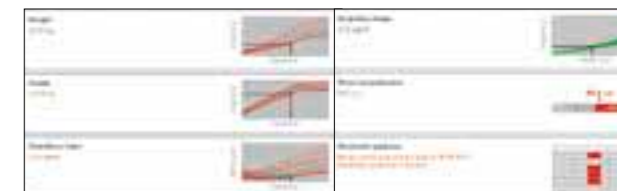
With the network-capable software seca analytics 115, optionally available with three or six workstation licenses, doctors can process measurements from EMR ready products, including seca mVSA and seca mBCA, in seven modules on the PC and thereby significantly improve the quality of the medical examination. Assistance is provided not only by the three integrated modules "Energy", "Cardiometabolic Risk" and "Growth/Development", but also the four additional seca mVSA and seca mBCA modules "Fluid", "Function/Rehabilitation", "Health risk" and "Raw impedance data". In the total of seven modules, medical inquiries about the patient's general health status and nutritional condition are answered, measurements compared to standard values and findings displayed in a therapy planner. The entire analysis can be printed on a conventional printer specially configured by the user. This type of diagnostic assistance adds a completely new dimension to medical advice and gives doctors' offices and hospitals a distinct competitive advantage.

System requirements:

- Supported operating systems: Windows® 10, Windows® 8.1, Windows® 8, Windows® Server 2012 R2, Windows® Server 2012, Windows® 7 (SP1), Windows® Vista (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008
- Processor: 1.2 GHz or higher
- Hard Disk Space: minimum 1 GB
- Memory: minimum 512 MB RAM
- Additional HW: DVD drive
- Ports: for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)
- Display: 1,024 x 768, High Colour (16-bit), 32-bit (recommended)

 **Compatible with** all EMR systems and EMR ready seca products.

One single location license free with every seca mBCA 515, seca mBCA 525 and seca mVSA 535



For an exact assessment of health status and nutritional condition of children, height, weight and BMI are compared to percentiles.

BMI, waist circumference and other laboratory data are used to assess the risk of coronary heart disease.



The proportion of fluid in the total body weight is important for prevention, diagnosis and therapy, e.g. for heart failure or kidney disease.

The composition and assessment of the body mass are important for the diagnosis and treatment of weight-related illnesses.



All examination results for each patient can be compiled into a PDF of one or more pages. The findings can be ideally prepared for a personal consultation.

seca | service

For seca analytics 115:

- Remote or on-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support




seca emr flash 101

Software to connect EMR ready products with EMR systems

Simple and efficient – medical science can take a giant step forward. The intuitive software *seca emr flash 101*, which transmits measurements directly to an EMR system, is now available as a download at www.seca.com. In just seconds the measurements from EMR ready *seca* height measuring systems and scales are assigned to the right patient ID.

System requirements:

- Supported operating systems: Windows® 10, Windows® 8.1, Windows® 8, Windows® 7 (SP1) and Windows® Vista (SP1, SP2)
- Ports: for usage in combination with *seca* medical devices USB port (2.0) or serial interface (RS232)

 **Compatible with** all EMR systems and EMR ready *seca* products.



seca | service

For *seca emr flash 101*:

- Remote or on-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca added value

Is there a software program that can communicate with all EMR systems? Of course – from *seca*. No other manufacturer of measuring systems and scales offers direct wireless data transmission to an EMR system. But with the software application *seca emr flash 101*, you can transmit your measurements from EMR ready *seca* products directly into an EMR system. The technological standard of the EMR system doesn't matter at all.



Accessories


seca 456

USB adapter for data reception on PC

The USB adapter *seca 456* enables any PC to receive wireless data from *seca* measuring systems and scales. This eliminates annoying cable connections in the examination rooms and, with the PC software *seca analytics 115*, allows measurements to be stored in the *seca* database or fed into an EMR system, and provides other parameters in a PDF file. The labor-intensive process of documenting examination findings is turned into a speedy and paperless matter.

System requirements:

- Software: *seca emr flash 101* or *seca analytics 115*
- Version: *seca 456 wa* for wireless data transmission to the Welch Allyn Connex® Vital Signs Monitor (CVSM) or Integrated Wall System

 **Compatible with** all EMR systems and EMR ready *seca* products.



The wireless reception of measurements on the PC is the decisive step toward Electronic Medical Records.



Accessories


seca 452

Interface module to transmit measurements to EMR systems

With only a small expenditure, *seca* scales and measuring stations can be refitted with the Interface Module *seca 452* to make them fully EMR ready via *seca* software. The module, fastened to the product in an easily assembled holder, is configured centrally via the server. LEDs show when the device is ready for use, give the user feedback on the scanned patient barcode and confirm that the measurements have been transmitted into the EMR system.

System requirements:

- Software: *seca emr flash 101*

 **Compatible with** all EMR systems and EMR ready *seca* products.



A standard bar code scanner can be connected via a USB port for use of the user and patient identification function.



seca 757 EMR ready baby scale with optimized damping system. Page 12
 seca 376 EMR ready baby scale with shell-shaped tray and raised LCD. Page 14
 seca 336i EMR ready baby scale with Wi-Fi function. Page 16
 seca 336 Electronic baby scale. Page 18
 seca 385 Multi-purpose, electronic baby and infant scale with detachable tray for weighing in a reclining or standing position. Page 19
 seca 384 Multi-purpose, electronic baby and infant scale with detachable tray for weighing in a reclining or standing position. Page 19
 seca 834 Multi-purpose, electronic baby and infant scale with detachable tray for weighing in a reclining or standing position. Page 20
 seca 745 Mechanical baby scale with sliding weights, lbs version available. Page 21

TECHNICAL DATA								
Capacity	15 kg	20 kg	20 kg	20 kg	50 kg	20 kg	20 kg	16 kg
Graduation	2 g < 5 kg > 5 g	5 g < 7,5 kg > 10 g	5 g < 10 kg > 10 g	5 g < 10 kg > 10 g	20 g < 20 kg > 50 g	10 g < 10 kg > 20 g	10 g < 10 kg > 20 g	10 g
Dimensions (WxHxD)	551 x 151 x 320 mm	620 x 190 x 358 mm	650 x 110 x 308 mm	650 x 110 x 308 mm	552 x 164 x 364 mm	552 x 164 x 364 mm	552 x 156 x 341 mm	550 x 180 x 290 mm
Dimensions/tray (WxHxD)	540 x 110 x 250 mm	615 x 130 x 275 mm	645 x 40 x 290 mm	645 x 40 x 290 mm	525 x 87 x 250 mm	525 x 87 x 250 mm	525 x 80 x 250 mm	550 x 110 x 270 mm
Dimensions/platform (WxHxD)					280 x 77 x 235 mm	280 x 77 x 235 mm	280 x 65 x 250 mm	
Weight	7.1 kg	3.7 kg	3.7 kg	3.7 kg	2.8 kg	2.8 kg	2.5 kg	6.4 kg
Power supply	Power adapter, rechargeable batteries	Batteries, power adapter optional	Power adapter, batteries	Batteries, power adapter optional	Batteries	Batteries	Batteries	
Approval class	III	III	III	III	III	III	III	III

FUNCTIONS								
TARE	•	•	•	•	•	•	•	•
BMIF		•	•	•	•	•	•	
HOLD	•	•	•	•	•	•	•	
Auto-HOLD	•	•	•	•				
Weighing range switch-over					•	•	•	
Auto weighing range switch-over	•	•	•	•				
Damping	•	•	•	•				
Reset-to-zero function	•	•	•	•				
Acoustic signals can be activated			•					•
RESET	•	•	•	•				
Automatic switch-off	•	•	•	•				
SEND/Auto-SEND	•	•	configurable via software seca emr flash 101		•	•	•	
Confirm			•	•				
Wi-Fi			•					
PRINT/Auto-PRINT	•	•	configurable via software seca emr flash 101					

OPTIONAL								
Interface module	seca 452, seca 456	seca 456						
Mobile carts	seca 403, seca 402	seca 403, seca 402	seca 403, seca 402	seca 403, seca 402	seca 403, seca 402	seca 403, seca 402		
Measuring rod/measuring board		seca 233	seca 234, seca 232 n	seca 234, seca 232 n	seca 417	seca 417	seca 417	
Head/foot positioner		seca 418						
Power adapter		seca 447, seca 400		A 683 210 270 009				
Carrying case/backpack			seca 428	seca 428	seca 409, seca 431, seca 413, seca 414	seca 409, seca 431, seca 413, seca 414	seca 409, seca 431, seca 413, seca 414	

AREAS OF APPLICATION								
Mobile weighing			•	•	•	•		
EMR READY	•	•	•					



ACCESSORIES FOR BABY SCALES

							
	new				new	new	
seca 452 Interface module to transmit measurements to EMR systems.		seca 403 Cart for mobile support with customized indentations for baby scales seca 757, seca 376, seca 336i, seca 336, seca 385 and seca 384.	seca 402 Cart for mobile support with customized indentations for baby scales seca 757, seca 376, seca 336i, seca 336, seca 385 and seca 384.	seca 233 Measuring rod for baby scale seca 376.	seca 234 Digital measuring rod for baby scales seca 336i and seca 336.	seca 232n Analog measuring rod for baby scales seca 336i and seca 336.	seca 418 Head and foot positioner for baby scale seca 376, if no measuring rod seca 233 is mounted.
Page 13		Page 13	Page 13	Page 15	Page 17	Page 17	Page 15









TECHNICAL DATA

Maximum load		100 kg	100 kg				
Measuring range				35–80 cm	35–80 cm	35–80 cm	
Graduation				1 mm	1 mm	1 mm	
Graduation/digital display					1 mm/5 mm/10 mm (configurable)		
Dimensions (WxHxD)	95 x 113 x 35 mm	715 x 800 x 435 mm	715 x 800 x 435 mm	641 x 179 x 296 mm	877 x 92 x 297 mm	877 x 92 x 266 mm	205 x 148 x 69 mm
Cable length							
Weight	180 g	27.5 kg	11.5 kg	700 g	1.5 kg	1.3 kg	400 g

OPTIONAL

Paper roll holder			seca 408				
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ACCESSORIES FOR BABY SCALES

							
seca 447 Power adapter for baby scale seca 376.	seca 400 Switch-mode power adapter for baby scales seca 376.	seca 428 Stable and roomy carrying case for baby scales seca 336i and seca 336.	seca 408 Paper roll holder for baby scales seca 376, seca 336i, seca 336, seca 385 and seca 384.	seca 409 Backpack to transport baby scales seca 385, seca 384 or seca 834 together with the measuring board seca 417 or the measuring mat seca 210.	seca 414 Case with handle and shoulder strap for electronic baby scales seca 385, seca 384 or seca 834 in combination with seca 417 or seca 210.	seca 431 Backpack to transport baby scales safely and comfortably.	seca 413 Carrying case for baby scales seca 385, seca 384 and seca 834.
Page 14	Page 14	Page 18	Page 19	Page 19	Page 21	Page 21	Page 21

TECHNICAL DATA

Dimensions (WxHxD)	50 x 40 x 75 mm	42 x 35 x 73 mm	630 x 330 x 110 mm	370 x 630 x 140 mm	625 x 350 x 210 mm	380 x 580 x 170 mm	570 x 150 x 330 mm
Cable length	1.85 m	1.85 m					
Weight	310 g	155 g	1.2 kg	1.6 kg	2.8 kg	800 g	900 g





seca 416 Infantometer with raised sides and footpiece mounted on two rails.	seca 417 Light and stable measuring board for mobile use.	seca 210 Measuring mat for babies and infants.	seca 207 Measuring rod with extra-wide measuring slides. Wall mounting possible.	seca 212 Reusable head circumference measuring tape for babies and infants, made of non-stretch material. For measuring head circumference and symmetry.	seca 218 Disposable measuring tape in practical wall dispenser.	seca 211 Disposable measuring tape for head circumference in practical wall dispenser.
Page 22	Page 24	Page 26	Page 27	Page 27	Page 28	Page 29

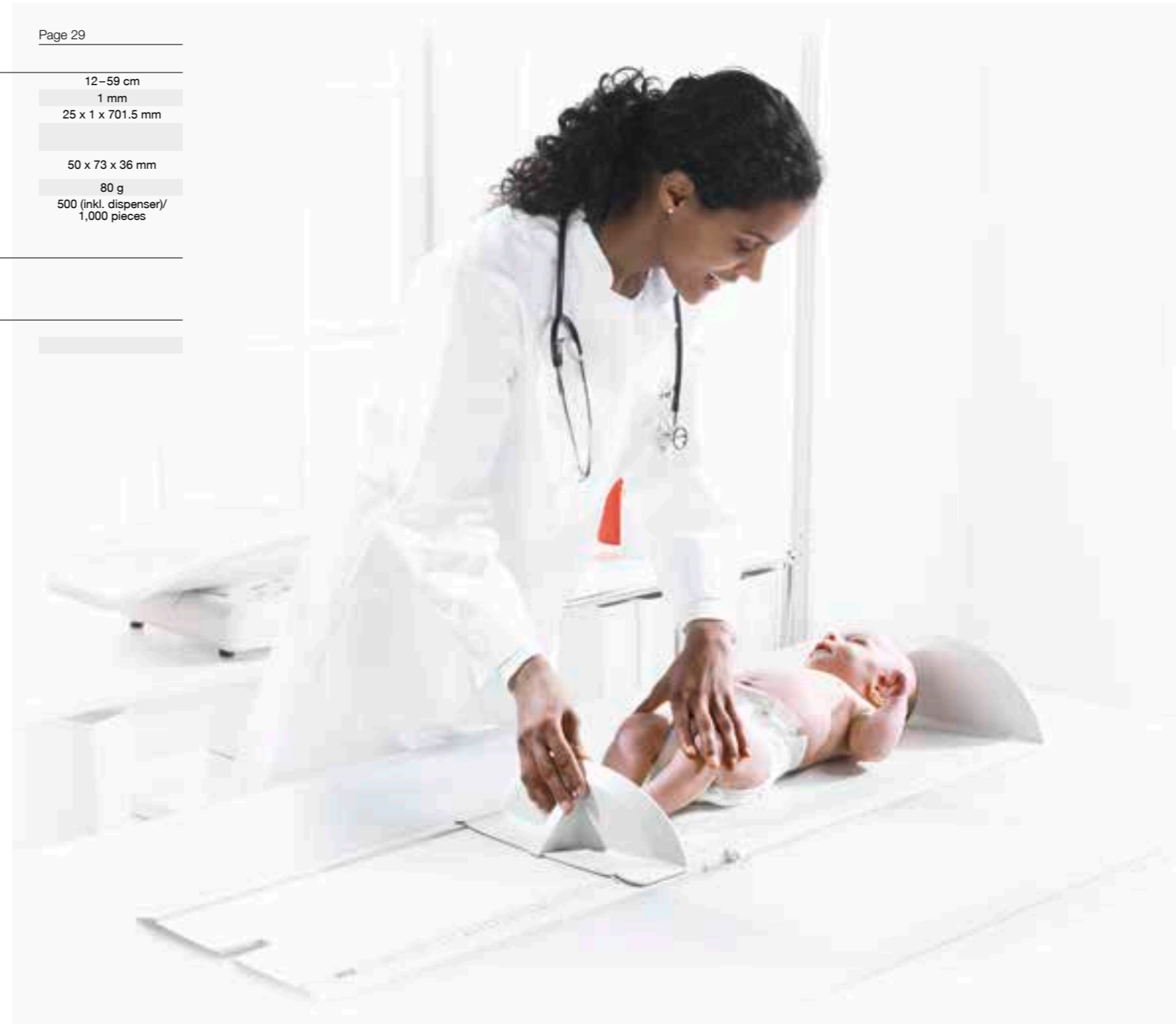
TECHNICAL DATA	seca 416	seca 417	seca 210	seca 207	seca 212	seca 218	seca 211
Measuring range	33–100 cm	10–100 cm	10–99 cm	0–99 cm	3–59 cm	0–100 cm	12–59 cm
Graduation	1 mm	1 mm	5 mm	1 mm	1 mm	1 mm	1 mm
Dimensions (WxHxD)	1,103 x 169 x 402 mm	1,110 x 115 x 333 mm	1,250 x 140 x 300 mm	1,047 x 120 x 286 mm	25 x 1 x 663 mm	20 x 1 x 1,200 mm	25 x 1 x 701.5 mm
Dimensions box (WxHxD)		577 x 115 x 333 mm	120 x 140 x 300 mm	1,047 x 120 x 30 mm			
Dimensions when folded (WxHxD)					140 x 145 x 30 mm	50 x 73 x 36 mm	50 x 73 x 36 mm
Weight	3.8 kg	1.6 kg	575 g	810 g	100 g	130 g	80 g
Quantity in dispenser					15 pieces	500 (inkl. dispenser)/1,000 pieces	500 (inkl. dispenser)/1,000 pieces
OPTIONAL							
Carrying case/backpack		seca 409, seca 414, seca 412	seca 409, seca 414				
AREAS OF APPLICATION							
Can be mounted			•	•			
Mobile measuring		•	•		•		

ACCESSORIES FOR PEDIATRIC MEASURING SYSTEMS



seca 409 Rucksack für den Transport der Säuglingswaage seca 384 zusammen mit dem Messbrett seca 417 oder der Messmatte seca 210.	seca 414 Tasche für Säuglingswaage seca 384 zusammen mit dem Messbrett seca 417 oder der Messmatte seca 210.	seca 412 Tasche für Messbrett seca 417.
Page 24	Page 25	Page 25

TECHNICAL DATA	seca 409	seca 414	seca 412
Dimensions (WxHxD)	370 x 630 x 140 mm	625 x 350 x 210 mm	686 x 427 x 56 mm
Weight	1.6 kg	2.8 kg	650 g





CE 0123 CE 0102

seca mBCA 515
Medical Body Composition Analyzer for determining body composition while standing.

Page 32

GENERAL		GENERAL	
Dimensions (WxHxD)	976 x 1,251 x 828 mm	Dimensions (WxHxD)	252 x 262 x 230 mm
Capacity	300 kg	Weight	In-ear thermometer version ca. 3 kg
Graduation	50 g < 150 kg > 100 g	Display type	7" touchscreen display
Weight	36 kg	Power supply	Built-in power adapter, internal rechargeable lithium-ion battery
Display	8.4" touchscreen display, can be rotated 360°	Medical device class	Ila
Power supply	power adapter	Interfaces	Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
Approval class	IIa	Compatible printers	Conventional laser and ink jet printers via the seca analytics 115 PC software
Medical Device Class	IIa		
Interfaces	seca 360° wireless technology, USB 2.0, Ethernet		
Compatible printers	laser printer and inkjet printer via PC software seca analytics 115		

BIOELECTRICAL IMPEDANCE ANALYSIS

seca mBCA 515		seca mBCA 525	
Measurement method	8-point Bioelectrical Impedance Analysis	Measurement method	8-point Bioelectrical Impedance Analysis
Measurement frequencies	1; 1,5; 2; 3; 5; 7,5; 10; 15; 20; 30; 50; 75; 100; 150; 200; 300; 500; 750; 1.000 kHz	Measurement frequencies	1; 2; 5; 10; 50; 100; 200; 500 kHz
Measurement segments	right arm, left arm, right leg, left leg, right half of body, left half of body, torso	Measurement segments	right arm, left arm, right leg, left leg, right half of body, left half of body, torso
Measurement current	100 µA	Measurement current	100 µA
Measurement time	17 seconds	Measurement time	30 seconds

TECHNICAL DATA FOR SCALE

Capacity	Weighing range 1 = 150 kg Weighing range 2 = 300 kg
Fine graduation	Weighing range 1 = 50 g Weighing range 2 = 100 g

ACCESSORIES

PC software seca analytics 115 (with one workstation license included), compatible with EMR ready seca measuring systems

PC software seca analytics 115 (with one workstation license included), compatible with EMR ready seca measuring systems

ACCESSORIES FOR MEDICAL BODY COMPOSITION ANALYZER



upgrade

seca mVSA 526
Smart Bucket for the seca mBCA 525.

Page 37



seca 475
Rolling stand with basket for the mobile use of the seca mBCA 525.

Page 33



seca 432
Carrying case for seca mBCA 525.

Page 33

TECHNICAL DATA			
Dimensions (WxHxD)	248 x 162 x 187 mm	600 x 600 mm (WxD), Height adjustable from 695-1,185 mm	410 x 310 x 295 mm
Weight	1.2 kg	10.5 kg	950 g
Measurement methods and data	See the blood pressure, SpO ₂ , and temperature measurement information for the seca mVSA 535		



CE 0123

seca mVSA 535
Spot-check-monitor for customized configuration.

Page 36

GENERAL	
Dimensions (WxHxD)	252 x 262 x 278 mm
Weight	In-ear thermometer version ca. 3 kg
Display type	7" touchscreen display
Power supply	Built-in power adapter, internal rechargeable lithium-ion battery
Medical device class	Ila
Interfaces	Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
Compatible printers	Conventional laser and ink jet printers via the seca analytics 115 PC software

BIOELECTRICAL IMPEDANCE ANALYSIS

Measurement method	8-point Bioelectrical Impedance Analysis
Measurement frequencies	1; 2; 5; 10; 50; 100; 200; 500 kHz
Measurement segments	right arm, left arm, right leg, left leg, right half of body, left half of body, torso
Measurement current	100 µA
Measurements	Impedance (Z), Resistance (R), Reactance (Xc), Phase angle (φ)
Measurement time	30 seconds

BLOOD PRESSURE MEASUREMENT

Measuring procedure	oscillometric, deflation or inflation measurement	
Measurement range	pSYS: 25-280 mmHg; pDIA: 10-220 mmHg; pMAP: 15-260 mmHg; Adjustable pressure for deflation measurement (80-280 mmHg)	
Measurement accuracy	Measurement accuracy of deflation measurement: Mean deviation systole 0,39 mmHg Standard deviation systole 2,57 mmHg Mean deviation diastole 0,43 mmHg Standard deviation diastole 1,73 mmHg	Measurement accuracy of inflation measurement: Mean deviation systole 0,94 mmHg Standard deviation systole 3,84 mmHg Mean deviation diastole 0,57 mmHg Standard deviation diastole 3,17 mmHg
Measurement certainty	Excess pressure limit 300 mmHg; automatic pressure release at 330 mmHg	
Measurement time	Normal: 15-20 sec. / max. 90 sec. (adults)	
Pulse rate	Range 30-240 BPM; accuracy ± 2 BPM	

SPO₂

	Masimo	seca
Measurement method	Pulse oximetry	Pulse oximetry
Measurement range (SpO ₂)	0.0% - 100.0%	0.0% - 100.0%
Measurement precision (SpO ₂)	SpO ₂ - resting = < 2% SpO ₂ - in motion = < 3%	SpO ₂ - resting (60% - 100%) ± 2 Arms; SpO ₂ - in motion (70% - 100%) ± 3 Arms
Measurement range (PR)	Pulse rate PR 25 bpm to 240 bpm; Perfusion index measurement range 0,02% - 20%	Pulse rate PR (Standard) 30 bpm to 240 bpm; Pulse rate PR (Enhanced) 20 bpm to 300 bpm
Measurement accuracy (PR)	PR - resting = < 3 bpm; PR - in motion = < 5 bpm	PR - resting ≤ 2 bpm; PR - in motion n/a

TEMPERATURE MEASUREMENT

	Filac 3000®	Genius® 2
Measurement methods	axillary/oral, rectal (direct, predictive)	in ear (direct)
Measurement range	direct 30 °C-43 °C predictive 35.5 °C-42 °C	33-42 °C
Measurement accuracy	direct ± 0,1 °C; predictive ± 0,1 °C	• Ambient temperature: 25 °C Target temperature: 36,7 °C-38,9 °C ± 0,1 °C • Ambient temperature: 16 °C-33 °C Target temperature: 33 °C-42 °C ± 0,2 °C
Response time	direct 60-120 sec.; predictive (oral) 3-10 sec.; predictive (axillary/rectal) 8-14 sec.;	< 2 sec.
Probe covers	490 0015	490 0016

ACCESSORIES

PC software seca analytics 115 (with one workstation license included), compatible with EMR ready seca measuring systems
















CE 0123

seca analytics 115
Medical PC software for diagnostic assistance.

Page 83

TECHNICAL DATA	
Dimensions (WxHxD)	137 x 192 x 7 mm
Weight	78 g
SYSTEM REQUIREMENTS	
Supported operating systems	Windows® 10, Windows® 8.1, Windows® 8, Windows® Server 2012 R2, Windows® Server 2012, Windows® 7 (SP1), Windows® Vista (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008
Processor	1.2 GHz or higher
Hard Disk Space	minimum 1 GB
Memory	minimum 512 MB RAM
Additional HW	DVD drive
Ports	for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)
Display	1,024 x 768, High Color (16-bit), 32-bit (recommended)
EMR READY	•

ACCESSORIES FOR MEDICAL VITAL SIGNS ANALYZER








												
	Reusable finger clip for measuring SpO ₂ in adults.	Reusable finger clip for measuring SpO ₂ in adults.	Reusable finger clip (soft) for measuring SpO ₂ in adults.	Reusable finger clip (soft) for measuring SpO ₂ in children.	seca mBCA 531 Measuring mat for Bioelectrical Impedance Analysis for the seca mVSA 535.	In-ear thermometer* for the optional expansion of the seca mVSA 535.	Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).	Extension cord for sphygmomanometer cuffs.	Extension cord for Masimo SpO ₂ sensors.	Extension cord for seca SpO ₂ sensors.	seca 475 Rolling stand for mobile use of the seca mVSA 535.	seca 432 Carrying case for seca mVSA 535.
	Page 37	Page 37	Page 37	Page 37	Page 37	Page 37	Page 37	Page 37	Page 37	Page 37	Page 37	Page 37

TECHNICAL DATA

Dimensions (WxHxD)	780 x 20 x 170 mm									600 x 600 mm (WxD), Height adjustable from 695–1,185 mm	410 x 310 x 295 mm	
Sizes						S: 17–26 cm M: 24–32 cm L: 32–42 cm XL: 38–46 cm	1,300 mm	1,500 mm	1,200 mm			
Application	> 30 kg	Adults	Adults	Children								
SpO ₂ measurement range	0.0%–100.0%	0.0%–100.0%	0.0%–100.0%	0.0%–100.0%								
SpO ₂ accuracy	± 2% resting ± 3% in motion		± 2 Arms (60–100%)	± 2 Arms (60–100%)								
PR accuracy	± 3 bpm resting ± 5 bpm in motion											
Measuring range						33–42 °C						
Probe covers						490 0016						
Weight	< 0.5 kg				1 kg	< 0.5 kg	depending on size	< 0.5 kg	< 0.5 kg	< 0.5 kg	10.5 kg	950 g
Measurement methods and data					See the Bioelectrical Impedance Analysis information for the seca mVSA 535							
ART.-NR.	490 0006	490 0007	490 0008	531 2000 001	490 0014	490 000x	490 0005	490 0012	475 0535 009	432 0000 009		

* In-ear thermometer may be used only on the Smart Bucket variant intended for that purpose.



						
seca 287 EMR ready ultrasonic measuring station for height and weight with voice guidance.	seca 285 EMR ready measuring station for height and weight with multi-function touch display and 50-gram graduation.	seca 704 EMR ready column scale with very high capacity and large platform, with BMI function.	seca 704s EMR ready column scale with integrated measuring rod.	seca 799 Electronic column scale with BMI function, low maintenance, easy to transport.	seca 711 Mechanical column scale with eye-level beam.	seca 756 Mechanical column scale with large dial and automatic display of the BMI range.
Page 40	Page 42	Page 44	Page 46	Page 47	Page 48	Page 63

TECHNICAL DATA

Capacity	300 kg	300 kg	300 kg	300 kg	200 kg	220 kg
Graduation	50 g < 150 kg > 100 g	50 g < 150 kg > 100 g	50 g < 150 kg > 100 g	50 g < 150 kg > 100 g	100 g < 150 kg > 200 g	100 g
Measuring range measuring rod	60–210 cm	30–220 cm		6–230 cm		
Graduation measuring rod	1 mm	1 mm		1 mm		
Dimensions (WxHxD)	434 x 2.270 x 466 mm	434 x 2.394 x 466 mm	360 x 930 x 520 mm	360 x 930 x 520 mm	294 x 831 x 417 mm	520 x 1.556 x 520 mm
Dimensions/platform (WxHxD)	430 x 60 x 365 mm	430 x 60 x 365 mm	335 x 80 x 345 mm	335 x 80 x 345 mm	272 x 75 x 280 mm	335 x 80 x 345 mm
Weight	16.5 kg	16 kg	14.9 kg	17.6 kg	6.3 kg	21.7 kg
Power supply	Power adapter	Batteries, power adapter	Batteries, power adapter optional	Batteries, power adapter optional	Batteries, power adapter optional	
Approval class	III	III	III	III	III	III

FUNCTIONS / ACCESSORIES

TARE			•	•	•	
Pre-TARE	•	•	•	•	•	
Mother/child function	•	•	•	•	•	
HOLD	•	•	•	•	•	
Auto-HOLD	•	•	•	•	•	
BMI			•	•	•	•
Auto-BMI	•	•				
BFR	•	•				
Patient data input	•	•				
CLEAR	•	•				
Auto-CLEAR	•	•	•	•		
Weighing range switch-over					•	
Auto weighing range switch-over	•	•	•	•		
Damping	•	•	•	•		
User-defined zero setting	•	•				
Reset-to-zero function						•
Backlighting	•	•				
Acoustic signals can be activated	•	•	•	•		
RESET	•	•	•	•		
Calibration/automatic calibration	•	•				
Automatic switch-off			•	•	•	
SEND/Auto-SEND	•	•	•	•		
PRINT/Auto-PRINT	•	•	•	•		
Integrated measuring rod	•	•				
Transport castors	•	•	•	•	•	•

VERSION

seca directprint	seca 287 dp	seca 285 dp				
RS232 interface			seca 704 r (incl. dialysis interface cable)			

OPTIONAL

Interface module	seca 452, seca 456	seca 452, seca 456	seca 452, seca 456	seca 452, seca 456		
Printer holder	seca 481 (for seca 465), seca 482 (for seca 466)	seca 481 (for seca 465), seca 482 (for seca 466)				
Measuring rod			seca 220, seca 224		seca 220, seca 224	seca 220
Head positioner				seca 430		
Power adapter			seca 447, seca 400	seca 447, seca 400	seca 447, seca 400	
PC interface cable			seca 451 (only for seca 704 r)			

EMR READY

	•	•	•	•		
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seca 635
EMR ready scale for heavy persons with large step on surface, cable-link remote control and high load-bearing capacity.

seca 899
Robust flat scale with cabled remote display, BMI, HOLD and TARE for mobile use.

seca 878
Electronic flat scale for mobile use with push buttons and double display.

seca 877
Robust, very light flat scale with integrated display, tip-on automatic switch-on and mother/child function for mobile use.

seca 878 dr
Doctor's scale with customizable label.

seca 761
Mechanical flat scales with large dial.

Page 52

Page 53

Page 54

Page 56

Page 56

Page 57

TECHNICAL DATA

Capacity	300 kg	200 kg	200 kg	200 kg	200 kg	150 kg
Graduation	100 g < 200 kg > 200 g	100 g < 150 kg > 200 g	100 g < 150 kg > 200 g	100 g < 150 kg > 200 g	100 g < 150 kg > 200 g	1 kg
Dimensions (WxHxD)	640 x 55 x 600 mm	321 x 60 x 356 mm	321 x 60 x 361 mm	321 x 60 x 356 mm	321 x 60 x 361 mm	303 x 118 x 470 mm
Dimensions/platform (WxHxD)	560 x 55 x 560 mm	288 x 60 x 278 mm	288 x 60 x 280 mm	288 x 60 x 278 mm	288 x 60 x 280 mm	270 x 70 x 280 mm
Cable length	2.5 m	2 m				
Weight	14.4 kg	4.5 kg	4.1 kg	4.2 kg	4.1 kg	3.5 kg
Power supply	Batteries, power adapter optional	Batteries, power adapter optional	Batteries, power adapter optional	Batteries	Batteries, power adapter optional	
Approval class	III	III	III	III	III	III

FUNCTIONS

TARE	•	•				
Pre-TARE	•					
Mother/child function			•	•	•	
HOLD	•	•	•		•	
Auto-HOLD	•					
BMI	•	•				
Auto-CLEAR	•					
Auto weighing range switch-over	•					
Reset-to-zero function	•					•
Damping	•					
RESET	•	•	•	•	•	
Automatic switch-off	•					
SEND/Auto-SEND	•					
PRINT/Auto-PRINT				•		
Tip-on automatic switch-on						

VERSION

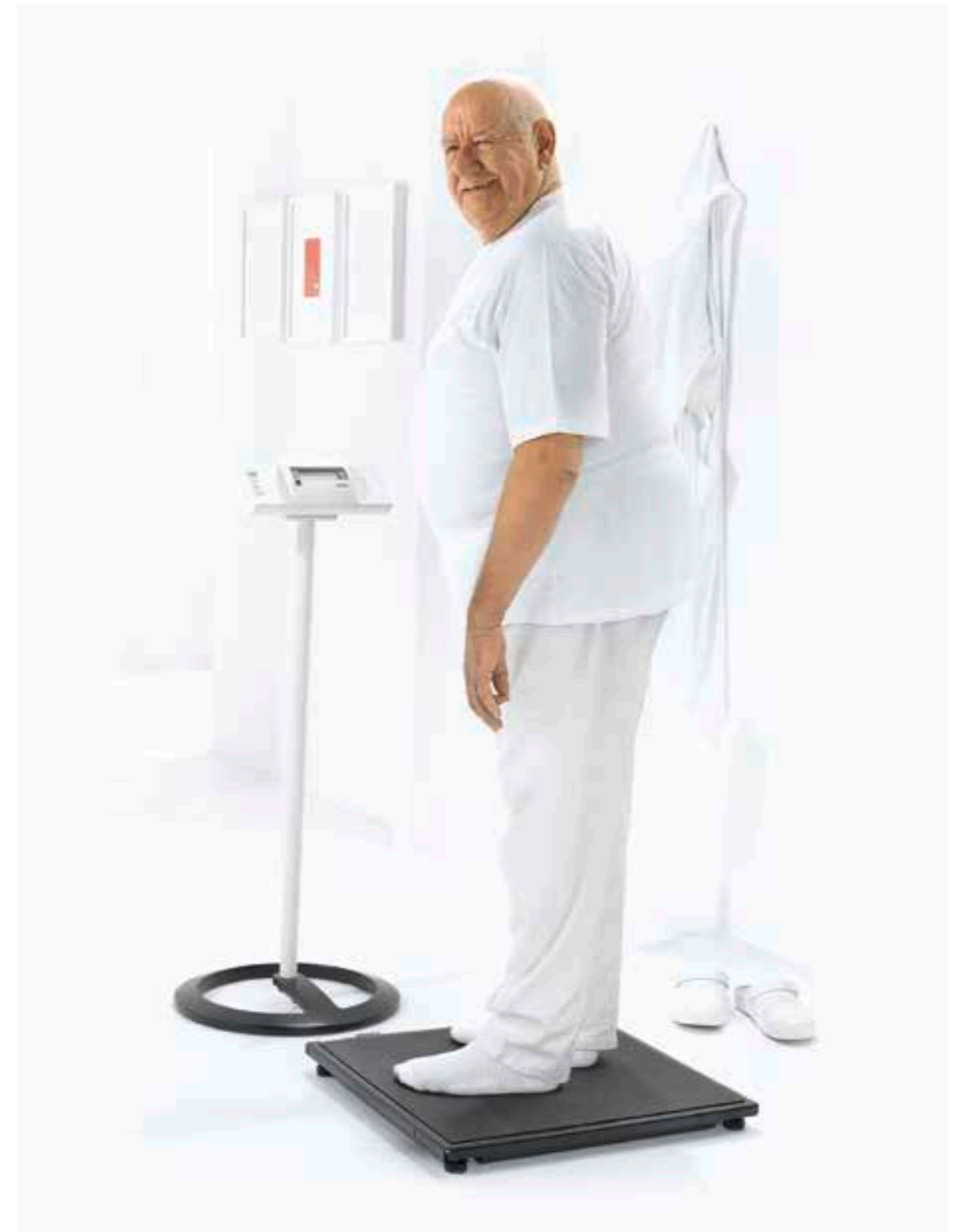
RS232 interface	seca 635 r (incl. dialysis interface cable)					
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OPTIONAL

Interface module	seca 452, seca 456					
Measuring rod		seca 217	seca 217	seca 217		
Stand for cable remote display	seca 472					
Adapter element		seca 437	seca 437	seca 437		
Power adapter	seca 451 (only for seca 635 r)					
PC interface cable	seca 447, seca 400	seca 447, seca 400	seca 447, seca 400	seca 409, seca 414, seca 415	seca 447, seca 400	
Carrying case		seca 409, seca 414, seca 421	seca 409, seca 414, seca 415	seca 409, seca 414, seca 415		
Individualizable label					seca 478	

AREAS OF APPLICATION

Mobile weighing		•	•	•		
EMR READY	•					



ACCESSORIES FOR MEASURING STATIONS, COLUMN AND FLAT SCALES

													
seca 452 Interface module to transmit measurements to EMR systems.	seca 224 Telescopic measuring rod for seca column scales.	seca 220 Telescopic measuring rod for seca column scales.	seca 220 Telescopic measuring rod for seca column scales.	seca 472 Stand for display elements of seca scales with cable remote displays.	seca 437 Adapter element for flat scales seca 899, seca 877 and seca 878 for combination with seca 217.	seca 447 Power adapter for column and flat scales, seca 704, seca 704 s, seca 799, seca 635, seca 899 and seca 878 dr.	seca 400 Switch-mode power adapter for column and flat scales seca 704, seca 704 s, seca 799, seca 635, seca 899 and seca 878 dr.	seca 451 PC interface cable (female) for column scale seca 704 r and flat scale seca 635 r.	seca 409 Backpack to transport the flat scales seca 899, seca 878, and seca 877 together with the stadiometer seca 217 and the adapter element seca 437.	seca 414 Case for flat scale seca 899, seca 878 and seca 877 together with stadiometer seca 217 and adapter element seca 437.	seca 421 Stable and roomy carrying case for the flat scale seca 899.	seca 415 Carrying case for the flat scales seca 878 and seca 877.	seca 478 Customizable label for doctor scale 878 dr.
Page 41	Page 47	Page 48	Page 48	Page 53	Page 53	Page 45	Page 45	Page 45	Page 53	Page 53	Page 53	Page 57	Page 56

TECHNICAL DATA

Measuring range		60–200 cm		max. 200 cm										
Graduation		1 mm		1 mm										
Dimensions (WxHxD)	95 x 113 x 35 mm	57 x 2,020 x 286 mm	57 x 1,480 x 286 mm	460 x 1,035 x 460 mm	333 x 86 x 310 mm	50 x 40 x 75 mm	42 x 35 x 73 mm		370 x 630 x 140 mm	625 x 350 x 210 mm	430 x 350 x 130 mm	330 x 380 x 70 mm	257 x 32 x 2 mm	
Cable length						1.85 m	1.85 m	1.1 m						
Weight	180 g	1.4 kg	700 g	7.8 kg	600 g	310 g	155 g	40 g	1.6 kg	2.8 kg	810 g	800 g	2 g	

OPTIONAL

Head positioner	seca 430	seca 430
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seca 274 EMR ready stadiometer, free standing with seca Frankfurt Line and heel positioner for precise measurements.	seca 264 EMR ready stadiometer for wall mounting with easy-to-clean floor mat.	seca 217 Stand-alone stadiometer for height measurement, with spacer, consisting of parts that fit together perfectly for transport ease.	seca 213 Stand-alone stadiometer for height measurement, easily assembled for convenient transport.	seca 222 Telescopic measuring rod for the wall with extrawide measuring slides and heel stop.	seca 216 Mechanical stadiometer. Head piece with locking screw for accuracy.	seca 206 Roll-up measuring tape with wall attachment.	seca 203 Ergonomic, smoothly extractable circumference measuring tape with WHR calculator to determine body fat distribution.	seca 201 Ergonomic, smoothly extractable measuring tape for determining body circumference.
Page 60	Page 61	Page 62	Page 63	Page 63	Page 64	Page 64	Page 65	Page 65

TECHNICAL DATA									
Measuring range	30-220 cm	30-220 cm	20-205 cm	20-205 cm	6-230 cm	max. 138 cm selectable from 3.5-230 cm	0-220 cm	0-205 cm	0-205 cm
Graduation	1 mm	1 mm	1 mm	1 mm	1 mm	1 mm	1 mm	1 mm	1 mm
Dimensions (WxHxD)	434 x 2,394 x 466 mm	428 x 2,318 x 474 mm	328 x 2,145 x 574 mm	337 x 2,165 x 590 mm	308 x 2,320 x 286 mm	120 x 1,500 x 217 mm	125 x 125 x 173 mm	70 x 28 x 66 mm	70 x 22 x 65 mm
Dimensions/platform (WxHxD)	430 x 60 x 365 mm	430 x 3 x 370 mm							
Dimensions when folded (WxHxD)				337 x 177 x 624 mm	308 x 1,320 x 286 mm				
Weight	15 kg	5 kg	3.6 kg	2.4 kg	1.1 kg	1.7 kg	202 g	70 g	50 g
Power supply	Batteries	Batteries							
FUNCTIONS									
HOLD	•	•							
WHR calculator								•	
User-defined zero setting	•	•							
Backlighting	•	•							
Acoustic signals can be activated	•	•							
RESET	•	•							
Calibration/automatic calibration	•	•							
Automatic switch-off	•	•							
SEND/Auto-SEND	•	•							
PRINT/Auto-PRINT	•	•							
Transport castors	•								
VERSION									
Intergrated level in headpiece				seca 2131					
OPTIONAL									
Interface module	seca 456	seca 456							
Wireless printer	seca 466, seca 465	seca 466, seca 465							
Head positioner					seca 430				
Adapter element			seca 437						
Carrying case			seca 409, seca 414, seca 412	seca 412					
AREAS OF APPLICATION									
Can be mounted		•			•	•	•	•	•
Mobile measuring			•	•				•	•
EMR READY									
	•	•							

ACCESSORIES FOR HEIGHT MEASURING SYSTEMS

			
seca 437 Adapter element for stadiometer seca 217 in combination with flat scales seca 899, seca 878 and seca 877.	seca 409 Backpack to transport the flat scales seca 899, seca 878 and seca 877 together with the stadiometer seca 217 and the adapter element seca 437.	seca 414 Case for stadiometer seca 217 together with flat scale seca 899, seca 878 or seca 877 and adapter element seca 437.	seca 412 Case for mobile stadiometer seca 217 and seca 213.
Page 62	Page 62	Page 62	Page 62

TECHNICAL DATA				
Dimensions (WxHxD)	333 x 86 x 310 mm	370 x 630 x 140 mm	625 x 350 x 210 mm	686 x 427 x 56 mm
Weight	600 g	1.6 kg	2.8 kg	650 g



						
seca 645 Large EMR ready standing aid scale for multifunctional use with fixed rail, high capacity, BMI function and time module.	seca 685 EMR ready multifunctional scale with stable handrail and high load bearing capacity, with castors for transport ease.	seca 677 EMR ready wheelchair scale with handrail and transport castors.	seca 665 EMR ready electronic wheelchair scale with high capacity, collapsible, wheels for transport and integrated time module.	seca 657 EMR ready electronic platform scale with innovative memory function.	seca 657 EMR ready electronic platform scale with high capacity and wheels for transport.	seca 675 Electronic platform scale with high capacity and wheels for transport.
Page 68	Page 69	Page 70	Page 71	Page 72	Page 72	Page 73

TECHNICAL DATA						
Capacity	300 kg	300 kg	300 kg	300 kg	300 kg	300 kg
Graduation	100 g < 200 kg > 200 g	100 g < 200 kg > 200 g	100 g < 200 kg > 200 g	100 g < 200 kg > 200 g	100 g < 200 kg > 200 g	100 g < 200 kg > 200 g
Dimensions (WxHxD)	640 x 1,150 x 660 mm	910 x 1,100 x 1,064 mm	920 x 1,120 x 1,150 mm	1,102 x 912 x 1,150 mm	893 x 87 x 1,655 mm	904 x 70 x 1,064 mm
Dimensions/platform (WxHxD)	600 x 55 x 600 mm	800 x 55 x 840 mm	800 x 55 x 965 mm	800 x 55 x 965 mm	800 x 55 x 1,465 mm	800 x 55 x 965 mm
Weight	25.4 kg	59.5 kg	38 kg	33.4 kg	46.2 kg	27 kg
Power supply	Power adapter, rechargeable batteries	Power adapter	Power adapter	Power adapter, rechargeable batteries	Power adapter	Power adapter
Approval class	III	III	III	III	III	III







FUNCTIONS/ACCESSORIES						
TARE/Pre-TARE	•	•	•	•	•	•
HOLD	•	•	•	•	•	•
Auto-HOLD	•	•	•	•	•	•
BMI	•	•	•	•	•	•
Auto-CLEAR	•	•	•	•	•	•
Auto weighing range switch-over	•	•	•	•	•	•
Damping	•	•	•	•	•	•
RESET	•	•	•	•	•	•
Automatic switch-off	•	•	•	•	•	•
SEND/Auto-SEND	•	•	•	•	•	•
PRINT/Auto-PRINT	•	•	•	•	•	•
Transport castors	•	•	•	•	•	•
Ramp		1 x integrated	2 x integrated	2 x integrated	2 x integrated	1 x integrated

VERSION						
RS232 interface		seca 685 r (incl. dialysis interface cable)	seca 677 r (incl. dialysis interface cable)			

OPTIONAL						
Interface module	seca 452, seca 456	seca 452, seca 456	seca 452, seca 456	seca 452, seca 456	seca 452, seca 456	
Mechanical accessories	Measuring rod seca 223				Stand for cable remote display seca 472	Stand for cable remote display seca 472, additional ramp seca 470
PC interface cable		seca 451 (only for seca 685 r)	seca 451 (only for seca 677 r)			

EMR READY						
	•	•	•	•	•	•

ACCESSORIES FOR MULTIFUNCTIONAL AND WHEELCHAIR SCALES AND BED AND DIALYSIS SCALE

					
seca 452 Interface module to transmit measurements to EMR systems.	seca 223 Telescopic measuring rod for the seca 645 handrail scale.	seca 472 Stand for display elements of seca scales with cable remote displays.	seca 470 Drive-up ramp as accessory for seca 675.	seca 451 PC interface cable (female) for the multifunctional and wheelchair scales seca 685 r and seca 677 r.	seca 460 RS232 interface for transmitting data to PC and/or printer for seca 985.
Page 68	Page 68	Page 73	Page 73	Page 69	Page 77

TECHNICAL DATA					
Measuring range		6-230 cm			
Graduation		1 mm			
Dimensions (WxHxD)	95 x 113 x 35 mm	57 x 2,320 x 286 mm	460 x 1,035 x 460 mm	810 x 35 x 250 mm	100 x 25 x 60 mm
Cable length				1.1 m	0.3 m + 1.2 m
Weight	180 g	952 g	7.8 kg	40 g	122 g

		
seca 959 Wireless chair scale with fine graduation, swiveling armrests, adjustable footrests and BMI function.	seca 956 Electronic chair scale with fold up armrests and footrests.	
Page 74	Page 75	

TECHNICAL DATA		
Capacity	300 kg	200 kg
Graduation	50 g < 150 kg > 100 g 100 g < 250 kg > 200 g	100 g
Dimensions (WxHxD)	563 x 897 x 978 mm	563 x 897 x 956 mm
Weight	24.5 kg	22.4 kg
Power supply	Power adapter, rechargeable batteries	Batteries
Approval class	III	III

FUNCTIONS		
TARE	•	•
Pre-TARE	•	•
HOLD	•	•
Auto-HOLD	•	•
BMI	•	•
Auto-CLEAR	•	•
Auto weighing range switch-over	•	•
Damping	•	•
RESET	•	•
Automatic switch-off	•	•
SEND/Auto-SEND	•	•
PRINT/Auto-PRINT	•	•

EMR READY		
	•	

OPTIONAL		
Interface module	seca 456	

	
seca 985 Electronic bed and dialysis scale with integrated mechanical lifters and equipment trolley.	
Page 76	

TECHNICAL DATA	
Capacity	500 kg
Max. patient weight	250 kg
Graduation	100 g < 200 kg > 200 g
Dimensions/cart (WxHxD)	520 x 927 x 562 mm
Dimensions/load cells (WxHxD)	328 x 150 x 212 mm
Weight	25.6 kg (load cells)
Power supply	Power adapter, rechargeable batteries
Approval class	III

FUNCTIONS/ACCESSORIES	
TARE/Pre-TARE	•
HOLD	•
BMI	•
Lower limit value	•
Damping	•

OPTIONAL	
RS232 interface	seca 460



ORGAN AND DIAPER SCALE



seca 856

Organ and diaper scale with protected electronics for precise determination of net weight.

Page 78

TECHNICAL DATA

Capacity	5 kg
Graduation	1 g < 3 kg > 2 g
Dimensions (WxHxD)	265 x 53 x 265 mm
Dimensions/scale platform (WxHxD)	235 x 5 x 170 mm
Weight	1.9 kg
Power supply	Batteries

FUNCTIONS

TARE/Pre-TARE	•
HOLD	•
Automatic switch-off	•

WIRELESS PRINTERS

Page 94–95



seca 466

Wireless printer advanced for reception, analysis and printing of measurements on thermal paper or labels, with integrated automatic cutter.

Page 80

seca 465

Wireless printer for reception, analysis and printing of measurements on thermal paper.

Page 81

TECHNICAL DATA

Dimensions (WxHxD)	106 x 105 x 180 mm	106 x 116.5 x 170 mm
Weight	1 kg	800 g
Power supply	Power adapter	Power adapter
Data transmission	seca 360° wireless technology	seca 360° wireless technology
Print speed	80 mm/sec	80 mm/sec
Print width	48 mm	48 mm

FUNCTIONS/ACCESSORIES

Print-out	Height, weight, BMI, resting or total energy expenditure or percentiles for children	Height, weight, BMI, resting or total energy expenditure or percentiles for children
Integrated automatic cutter	•	

OPTIONAL

Thermal paper seca 485	5 or 50 rolls	5 or 50 rolls
Labels seca 486	1 or 24 rolls	

EMR READY

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INCLUDED WITH PRINTER

SD smart card	•	•
Power adapter	•	•
SD card reader	•	•
1 roll of thermal paper	•	•
1 roll of labels	•	

DIGITAL PORTION AND DIET SCALE



seca 852

Digital portion and diet scale with perfect fitting bowl for safe storage, finest graduation.

Page 79

TECHNICAL DATA

Capacity	3 kg
Graduation	1 g
Dimensions (WxHxD)	210 x 140 x 210 mm
Dimensions/scale platform (WxHxD)	140 x 53 x 140 mm
Weight	710 g
Power supply	Batteries

FUNCTIONS

TARE	•
Automatic switch-off	•

ACCESSORIES FOR WIRELESS PRINTERS



seca 485

Thermal paper rolls for wireless printers seca 466 and seca 465.

Page 80

seca 486

Roll of labels for wireless printer seca 466.

Page 80

TECHNICAL DATA

Dimensions (WxHxD)	57 x 59 x 59 mm	58 x 64 x 64 mm
Weight	140 g	140 g
Packaging unit	5 or 50 rolls	1 or 24 rolls



SOFTWARE

Page 94–95



seca analytics 115

Medical PC software for diagnostic assistance.

Page 83

seca emr flash 101

Software to connect EMR ready products with EMR systems.

Page 84

TECHNICAL DATA

Dimensions (WxHxD)	137 x 192 x 7 mm
Weight	78 g

SYSTEM REQUIREMENTS

Supported operating systems	Windows® 10, Windows® 8.1, Windows® 8, Windows® Server 2012 R2, Windows® Server 2012, Windows® 7 (SP1), Windows® Vista (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008	Windows® 10, Windows® 8.1, Windows® 8, Windows® 7 (SP1) and Windows® Vista (SP1, SP2)
Processor	1.2 GHz or higher	
Hard Disk Space	minimum 1 GB	
Memory	minimum 512 MB RAM	
Additional HW	DVD drive	
Ports	for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)	for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)
Display	1,024 x 768, High Colour (16-bit), 32-bit (recommended)	

EMR READY

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ACCESSORIES FOR SOFTWARE



seca 452

Interface module to transmit measurements to EMR systems.

Page 85

seca 456

USB adapter for data reception on PC.

Page 85

seca 456 wa

USB adapter for data reception and transmission to a Welch Allyn CVSM or Integrated Wall System.

Page 85

TECHNICAL DATA

Dimensions	95 x 113 x 35 mm	85 x 23 x 10 mm	85 x 23 x 10 mm
Weight	180 g	12 g	12 g

SYSTEM REQUIREMENTS

Processor	1.2 GHz or higher		
Hard Disk Space	minimum 1 GB		
Memory	minimum 512 MB RAM		
Additional HW			
Ports	USB 2.0, 2x ISIS-Bus, LAN, adapter	for usage in combination with seca medical devices USB port (2.0)	for usage in combination with seca medical devices USB port (2.0)
Display			

Software	seca emr flash 101	seca emr flash 101 or seca analytics 115	seca emr flash 101 or seca analytics 115
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EMR READY

	•	•	•
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seca technical terms – a brief explanation.

Measuring systems and scales:

TARE function	Useful when any additional weight (e.g. diapers or blankets of babies/small children and also chairs or wheelchairs) is not to be included in the result. First, this additional weight is measured and then the display is reset to zero. The weight of this object is then disregarded at the next weighing.	Patient data input	Data such as gender, age and PAL (Physical Activity Level) can be entered via the input key on the multi-function touch display of the seca 285. Together with the height and weight measurements, the data are wirelessly transmitted to the seca wireless printer, where they are used to calculate the resting energy expenditure and total energy expenditure or percentiles for children and teenagers.
Pre-TARE function	When activated, a previously stored value is automatically deducted from the currently measured weight. For example, when caregiver and patient stand on the scales together and only the weight of the patient is to be shown.	CLEAR, Auto-CLEAR function	Old measurements or patient data can lead to incorrect calculations. Therefore, the CLEAR function deletes results from previously measured patients. It can be activated manually or automatically with Auto-CLEAR after five minutes.
BMIF – Breast-Milk-Intake-Function	The amount of milk taken by a baby when being breastfed can be ascertained with the aid of the Breast-Milk-Intake-Function. At the touch of a button, the weight of the baby determined before feeding is stored and then deducted from the weight determined after feeding (difference function).	Limit value function	For effective monitoring of patients, one can preset a weight limit and an alarm rings if this is exceeded.
Mother/child-function	This function was developed to enable the weighing of children in the arms of their parents. When the mother/child-function is activated, the previously stored weight of the adult is deducted from the currently determined value. The display then shows only the weight of the child, with an accuracy of down to 50 g.	Weighing range switch-over, auto weighing range switch-over	seca scales with a multi-range function let you quickly switch manually from one range to another. From a fine graduation at low capacity in scale range 1 to maximum capacity in scale range 2.
HOLD, Auto-HOLD	Once the weight has been saved with a press of the HOLD key, it remains in the display after the patient has left the scale. This function lets the doctor or nurse care for the patient first and then record the weight. When the Auto-HOLD function is activated, the HOLD function is automatically triggered as soon as the weight has stabilized.	Damping function	The damping function makes it possible to determine the precise weight in spite of disturbances during the weighing process, e.g. caused by the patient moving. The degree of damping can be adjusted as required before weighing a patient: the stronger the damping, the less sensitively the scales react to the movements during the weighing process.
BMI function	The Body Mass Index correlates height and weight to one another. A tolerance zone considered to be ideal from a health point of view is between 18.5 and 24.9. If the value is higher or lower, medical advice should be obtained.	RESET function	The RESET function restores the factory settings.
BFR	The Body Fat Rate compares the patient's percentage of fat with an ideal value. Body height and weight are the basis of calculation; extra consideration is given to gender.	SEND, Auto-SEND function	At the press of a button, all measurements and input data are wirelessly transmitted to receive-ready devices such as a scale with a corresponding BMI function, a wireless printer, a PC with the software seca emr flash 101 or software seca analytics 115. When the Auto-SEND function is activated, the SEND function is automatically triggered when the weight on the scale has stabilized or height measurements have been confirmed.
		PRINT, Auto-PRINT-Funktion	With the PRINT function the measurements and input data are wirelessly transmitted to a seca wireless printer, where they are processed and printed. When the Auto-PRINT function is activated, the PRINT function is automatically triggered when the weight on the scale has stabilized or height measurements have been confirmed.

The seca mBCA and seca mVSA:

mBCA	Medical Body Composition Analyzer: a device that provides a medically precise measurement of a person's body composition.	HYD	Hydration: the ratio of extracellular water to intracellular water.
BIA	Bioelectrical Impedance Analysis: a method of analyzing body composition. This involves measuring the resistance of the body and its parts to a weak alternating electrical current.	Impedance (Z), Phase angle (φ), Resistance (R), Reactance (Xc)	These represent the raw data from the Bioelectrical Impedance Analysis that can be used for medical studies. This includes the impedance, the phase angle and the two impedances, resistance and reactance.
FM	Fat Mass: the fat mass defines the amount of body fat in kg as an absolute mass and in % as the relative proportion of the body weight.	BMI	Body Mass Index: the unit of measurement for the analysis of body weight in relation to a person's height, calculated using the formula (weight in kg/height in m) ² .
FFM	Fat-Free Mass: the total body weight minus the fat mass.	BIVA	Bioelectrical Impedance Vector Analysis: the way in which the BIVA is presented enables analysis of hydration and cell mass.
FMI	Fat Mass Index: this index measures the proportion of body fat based on the height, weight and fat mass.	BCC	Body Composition Chart: the Body Composition Chart developed by seca shows the measurement points of the fat mass index in a coordinate system and helps to determine body composition.
FFMI	Fat-Free Mass Index: this is a measurement of the muscle definition of a human body. The measurement is based on the body height, weight and fat-free mass.	EMR	Electronic Medical Record: these are information systems that are used in hospitals to record and present patient information.
SMM	Skeletal Muscle Mass: this includes all the muscles that are attached to the skeleton or – by extension – used to move the body.	HL7, GDT	These are recognized data formats needed by most EMR systems to process patient data.
TBW	Total Body Water: the sum of the fluids outside and inside the cells of the body, not including the substances dissolved therein.	mVSA	Medical Vital Signs Analyzer: A device that measures the vital parameters of blood pressure, SpO ₂ , pulse, temperature and, by means of a measuring mat, body composition (Bioelectrical Impedance Analysis).
ECW	Extracellular Water: all fluids found outside the cells in the human body.	SpO₂	Pulse oximetry is used to measure blood oxygen saturation and pulse rate. The non-invasive method employs a fingerclip sensor.
ICW	Intracellular Water: all fluids found inside the cells in the human body.	NIBP	Non-invasive blood pressure measurement: the oscillatory measurement method measures blood pressure by means of a cuff placed around the upper arm or thigh.
REE	The amount of energy that the body needs per day of complete rest, at room temperature and with an empty stomach, in order to keep the bodily functions working.		
TEE	Total Energy Expenditure: the total energy expenditure consists of the resting energy expenditure and the energy expended for everything the body does (muscle work, mental work, other body exertions).		



The products in this catalog bearing the symbol CE 123 and / or CE 102 fulfill the applicable requirements of directive 93/42/EEC on medical devices or directive 2014/31/EU on non-automatic weighing instruments.



Scales bearing this symbol and products shown in this catalog bearing the CE 0102 sign comply with directive 2014/31/EU on non-automatic weighing instruments. seca scales with this symbol comply with the stringent

quality and technical requirements applicable to calibratable scales. Scales bearing this symbol fulfill the applicable requirements of directive 93/42/EEC on medical devices.



Scales bearing this symbol comply with the strict stringent of Class III or III of the directive and can be used for medical measurements which are subject to calibration.



Products bearing this symbol fulfill the applicable requirements of the following directive:

- 93/42/EEC on medical devices



The professionalism of seca is also officially recognized. The notified body for medical devices responsible for seca confirms with the certificate that seca consistently complies with the strict legal requirements as a manufacturer of medical devices. The quality assurance system at seca includes the areas of Design and Development, Production,

Sales and Service of medical scales, height measuring instruments, software and measurement systems for the assessment of health status and nutritional condition. seca is authorized to conduct the manufacturer's conformity assessment of medical scales.



We are anxious to preserve our natural resources. This is why we strive to save packaging material where practical. And what is left over can be conveniently disposed of locally via Germany's Dual System recycling programme.



OUR PRODUCTS AND ART

See the world
through our eyes.

► Push the boundaries, reinvent the world and never be satisfied. That's the way artists have thought since art began and the way we have thought since seca was founded. That was and is precisely why art has grown into an important source of inspiration over our 177 years of existence. It brings up new questions, leads to new perspectives, and expands horizons – for our products too. We would like to have you participate in this process. In 2009, for instance, media artist Christina Lissmann created an image portfolio for seca that shows our products in a limitless fantasy world. In the current seca art project the renowned photographic artists, Barbara Metz and Eve Racine, are dealing with balance in the body. Without it, the body falls ill – balance is recovered in the end with the aid of seca. The human body is illustrated in an abstract and mechanical yet also playful and lively way. Welcome to the inspiring, limitless world of art. Welcome to seca.