## seca mVSA 535

## Spot-check-monitor for customized configuration

## new



- Conventional measurement of vital signs of blood pressure, SpO<sub>2</sub>, pulse rate and temperature.
- Fast and easy assessment of body composition, e. g., fat mass, body water and muscle mass.
- Easy integration into any EMR system and connection to all seca 360° wireless products.
- Easy-to-understand graphic presentation of measurement results on the touchscreen monitor.
- Internal storage for results of approximately 70,000 measurements.
- Integrated replaceable rechargeable lithium ion battery in the monitor.



## seca mVSA 535:

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

he complex device measures the conventional four vital parameters of blood pressure, SpO<sub>2</sub>, pulse rate, and temperature as well as the complete body composition. This high-performance software guarantees the error-free transmission of all measurement values to your EMR system.

General		
Dimensions (WxHxD)	In-ear thermometer version 252 x 262 x 278 mm / 9.9 x 10.3 x 10.9"	
/		
Weight Display type	In-ear thermometer version approx. 3 kg / 5.9 lbs 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	
	Conventional laser and link jet print	iers via trie seca arialytics 1151 C software
Bioelectrical impedance analysis		
Measurement method	8-point Bioelectri	ical 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 μΑ	
Measurement	Impedance (Z), Resistance (R), Reactance (Xc), Phase angle (φ)	
Measurement time	30 seconds	
Blood pressure measurement		
Measuring procedure	oscillometric, deflation or inflation measurement	
mousumg procedure	pSYS: 25–280 mmHg; pDIA: 10–220 mmHg; pMAP: 15–260 mmHg;	
Measurement range	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	
00	Marriera	
SpO <sub>2</sub>	Masimo	seca
Measurement method	Pulse oximetry	Pulse oximetry
Measurement range (SpO <sub>2</sub> )	0.0 % – 100.0 %	0.0 % – 100.0 %
Measurement accuracy (SpO <sub>2</sub> )	$SpO_{2}^{0}$ (no motion) 70 % – 100 % ± 2 Arms; $SpO_{2}^{0}$ (in motion) 70 % – 100 % ± 3 Arms	$SpO_2$ (no motion) $60\% - 100\% \pm 2$ Arms; $SpO_2$ (in motion) $70\% - 100\% \pm 3$ 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 (no motion) 25 min <sup>-1</sup> – 240 min <sup>-1</sup> ± 3 digits PR (in motion) 25 min <sup>-1</sup> – 240 min <sup>-1</sup> ± 5 digits	PR <u>∠</u> 2 bpm
Temperature measurement	Filac 3000®	Genius® 2
Measurement methods	axillary/oral, rectal (direct, predictive)	in-ear (direct)
	direct 30 °C – 43 °C (86 °F – 109.4 °F)	
Measurement range	predictive 35.5 °C-42 °C (95.9 °F - 107.6 °F)	33-42 °C / 91.4-107.6 °F
Measurement accuracy	direct $\pm$ 0.1 °C ( $\pm$ 0,2 °F) predictive $\pm$ 0.1 °C ( $\pm$ 0.2 °F)	<ul> <li>Ambient temperature: 25 °C (77 °F)         Target temperature: 36.7 °C –38.9 °C (98.1 °F –102 °F)         ± 0.1 °C (± 0.2 °F)     </li> <li>Ambient temperature: 16 °C –33 °C (60.8 °F –91.4 °F)</li> <li>Target temperature: 33 °C –42 °C (91.4 °F –107.6 °F)</li> <li>± 0.2 °C (± 0.4 °F)</li> </ul>
Response time	direct 60-120 sec.; predictive (oral) 3-10 sec.; predictive (axillary) 8-12 sec.; predictive (rectal) 10-14 sec.	< 2 sec.
Probe covers	490 0015	490 0016
Accessories		
Bioelectrical impedance analysis	seca mBCA 531 measuring ma	at for bioelectrical impedance analysis
Blood pressure	Cuff sizes S: 17–26 cm / 6.7 – 10.2"; M: 24–32 cm / 9.4 – 12.6"; L: 32–42 cm / 12.6 – 16.5"; XL: 38–46 cm / 15 – 18.1"; extension cord for sphygmomanometer cuffs	
$SpO_{\!\scriptscriptstyle{2}}$	Finger clip (hard) for adults; finger clip (soft) for adults; finger clip (soft) for children; Patient cable for Masimo SET SpO, sensors; extension cord for seca SpO, sensors	
Temperature	In-ear thermometer *	
seca 360° wireless	seca 360° wireless PC software seca analytics 115 (with one workstation license included), system compatible with seca 360° wireless measuring systems and scales	
	System companie with Seca 300	5.555 moderning systems and soulds