



The Rossmax S150 Automatic Wrist Blood Pressure Monitor (VM-BPMRMS150) is a clinically validated wrist-type blood pressure monitor with Smart Sense Technology, Irregular Heartbeat Detection (IHB), movement detection, and 90 date-and-time memories with a 3-reading average function. It measures blood pressure over 0-299 mmHg and pulse over 30-200 BPM (accuracy ± 3 mmHg / $\pm 5\%$ pulse), includes a WHO hypertension risk indicator, and operates with one-touch simplicity. Validated to the ESH protocol and AAMI/ANSI/ISO 81060-2, the VM-BPMRMS150 includes a carrying case and is backed by a 5-year warranty.

Smart Sense Technology for Accurate Wrist Blood Pressure Measurement

The Rossmax S150 Automatic Wrist Blood Pressure Monitor (VM-BPMRMS150) incorporates Rossmax's proprietary Smart Sense Technology — an advanced electronic deflation control system in which a precision valve dynamically regulates the rate of cuff pressure release during each

measurement. Unlike conventional wrist monitors that deflate at a fixed predetermined rate, Smart Sense continuously analyses the pulse signals detected during deflation and adjusts the deflation rate in real time. This dynamic pressure control improves the accuracy of systolic and diastolic endpoint capture, particularly in patients with irregular pulse patterns or borderline readings. The S150 measures blood pressure across a range of 0–299 mmHg and pulse from 30 to 200 BPM, with specified accuracy of ± 3 mmHg for blood pressure and $\pm 5\%$ for pulse rate.

IHB Detection, Memory, Averaging, and Ease of Use

The VM-BPMRMS150 includes Irregular Heartbeat Detection (IHB), which flags any irregular pulse pattern identified during the measurement cycle and alerts the user to readings that may warrant clinical review or repeat measurement. Movement detection identifies body movement during measurement that could compromise reading accuracy. A hypertension risk indicator classifies each result against WHO blood pressure categories on screen, providing immediate contextual interpretation without the need for external reference tables. The monitor stores 90 readings for trend tracking over time and automatically calculates the average of the last three readings following each session — consistent with international home blood pressure monitoring guidelines that recommend averaged values for record-keeping and clinical decision support. One-touch automatic operation makes the S150 accessible to elderly patients and those with limited hand dexterity, and the compact wrist form factor provides portability for patients who travel or find upper-arm cuffs difficult to apply independently.

Clinical Validation, Power, Accessories, and Applications

The Rossmax S150 is validated according to the European Society of Hypertension (ESH) protocol and meets the AAMI/ANSI/ISO 81060-2 accuracy standard — independent clinical validation that distinguishes it from the majority of consumer wrist blood pressure monitors that carry no formal accuracy certification. The monitor is powered by two AAA batteries and is supplied with batteries, a carrying case, and instruction manual. A 5-year manufacturer warranty is included. Available in South Africa from Vital Medical, the VM-BPMRMS150 is suited to home blood pressure monitoring, travel use, hypertension management programmes, and primary care settings where a validated, compact wrist monitor is required.

Technical Specifications

Specification	Value
Model	S150
VM SKU	VM-BPMRMS150
Brand	Rossmax
Type	Automatic wrist blood pressure monitor
Measurement method	Oscillometric (Smart Sense Technology)
BP measurement range	0-299 mmHg
Pulse range	30-200 BPM
Accuracy	± 3 mmHg (BP); $\pm 5\%$ (pulse)
IHB Detection	Yes
Movement Detection	Yes
Hypertension Risk Indication	WHO classification indicator
Memory	90 readings
Averaging	Last 3 readings
Operation	One-touch automatic
Power	2× AAA batteries
Accessories	Batteries, carrying case, instruction manual
Warranty	5 years
Clinical validation	ESH protocol; AAMI/ANSI/ISO 81060-2

SKU: VM-BPMRMS150