

The BV-520 is a unidirectional vascular Doppler detector with 8MHz probe for arterial/venous blood flow assessment, 20-bit LED bar, DC 9V 1000mA, 7.4V 900mA rechargeable battery, 35?55?13mm, 300g. Detects peripheral vascular blood flow velocity in extremities and anatomical vein locations. Available from Vital Medical South Africa.

BV-520 Vascular Doppler Detector for Arterial and Venous Assessment

The BV-520 is a pocket-sized vascular Doppler detector using an 8MHz continuous wave probe to detect and characterise arterial and venous blood flow patterns in peripheral vascular assessment ? a standard clinical technique for evaluating peripheral arterial disease, venous insufficiency, deep vein thrombosis screening, ankle-brachial index (ABI) measurement and pre- and post-operative vascular assessment. The 8MHz probe frequency is the clinical standard for peripheral vascular Doppler assessment of superficial vessels including the dorsalis pedis, posterior tibial, radial, ulnar, popliteal and superficial femoral arteries, as well as superficial venous structures in the lower extremity. Higher probe frequencies in this range provide better spatial resolution for superficial vessels compared to lower frequency cardiac or obstetric Doppler probes.

20-Bit LED Bar Display and Rechargeable Operation

The BV-520's 20-bit LED bar display provides a visual representation of blood flow signal intensity, allowing the clinician to locate the vessel and optimise probe angle for maximum Doppler signal strength. The audio output provides the characteristic Doppler blood flow sound ? biphasic or triphasic for normal peripheral arteries, monophasic for diseased or collateralised vessels ? enabling qualitative assessment of vascular patency and flow quality. The rechargeable 7.4V 900mA battery pack with DC 9V 1000mA charging provides cordless operation for bedside, clinic and ward-based vascular assessment.

South African Vascular Assessment and Wound Care Supply

The BV-520's pocket dimensions (35?55?13mm) and 300g weight make it genuinely portable for use across multiple clinical settings in a single working day. Vascular Doppler assessment is routinely

performed in wound care, diabetic foot clinics, vascular surgery, general surgery, emergency medicine and physiotherapy ? all settings where the BV-520 provides practical, immediate peripheral vascular assessment capability. Vital Medical supplies the BV-520 to South African vascular surgeons, general surgeons, wound care nurses, diabetic foot clinics, physiotherapists and emergency physicians requiring a reliable, portable peripheral vascular Doppler.

Technical Specifications

Specification	Detail
Model	BV-520
Type	Unidirectional Vascular Doppler Detector
Probe Frequency	8MHz
Display	20-bit LED bar graph
Power Input	DC 9V 1000mA
Battery	7.4V 900mA rechargeable
Output Power	3W
Frequency Power	500mW
Dimensions	35?55?13mm
Weight	300g
Application	Arterial/venous blood flow assessment, peripheral vascular, ABI measurement

SKU: VM-DVBV520