

CLINICAL APPLICATIONS

Blood Flow Assessment	<ul style="list-style-type: none"> • ABIm • Mean arterial pressure • Color coded assessment of severity of peripheral vascular disease
Arteriovenous Fistula	<ul style="list-style-type: none"> • Coming soon

BLUEDOP FEATURES

FEATURE	DESCRIPTION
5 MHz Bi-Directional Doppler Probe	<ul style="list-style-type: none"> • Higher probe frequency for quicker and easier measurement of small superficial or difficult blood vessels
Single Button – On/Off	<ul style="list-style-type: none"> • Ease of operation with a single button control • Lighted indicator to show power status and battery charge
Cuffless Lower Limb ABIm	<ul style="list-style-type: none"> • Free the hands of the examiner during the measurement • Patient comfort • Allow the examiner to focus on positioning the Doppler probe • Significantly shortening examination duration • Better accuracy of measurements on calcified vessels, patients with edema, and chair bound patients
Auto Gain Mode	<ul style="list-style-type: none"> • Ease in waveform capture • Significantly shortening examination duration
Wireless Charging	<ul style="list-style-type: none"> • Inductive probe charging • Rapid charging between patients
Auto Waveform Analysis	<ul style="list-style-type: none"> • Identify and display Doppler signals in multi-level arterial disease where peak Doppler shifts of a few hundred cycles may be encountered • Auto-correction of stochastic signal noise
Wireless Probe	<ul style="list-style-type: none"> • Cable free examination • Ease of examination • Portability
Touch Screen Operation – Reporting and Measurement Sequence	<ul style="list-style-type: none"> • Guides you through the examination protocol procedure • Ease of operation with a single button selection • No need to worry about whether a measurement was labeled correctly • Shortens examination duration and less examiner operations

BLUEDOP SPECIFICATIONS

GENERAL	ADVANCED INFORMATION
<p>Power: 110–220 V, 50–60 Hz</p> <p>Weight & Dimensions:</p> <ul style="list-style-type: none"> Tablet: 292 mm x 200 mm x 9 mm, 775 grams Probe: 35 mm x 47 mm x 135 mm, 200 grams Charger: 40 mm x 76 mm x 154 mm, 340 grams <p>Tablet:</p> <ul style="list-style-type: none"> Operating System: Windows 10 Screen: 31 cm Screen with Touch Screen CPU: i3/i5 RAM: 8 GB Hard Drive: 128GB <p>BlueDop Probe:</p> <ul style="list-style-type: none"> Doppler Probe Connectors: Bluetooth Doppler Frequency: 5 MHz Doppler Technology: Bi-directional, continuous wave 	<p>Waveform Validation:</p> <ul style="list-style-type: none"> Waveform validation to improve both sensitivity and specificity
	<p>ACCURACY</p> <p>The accuracy of the derived parameters ABIm, VR and PD were found to be:</p> <ul style="list-style-type: none"> ABIm ± 0.05 VR $\pm 5/-10$ mmHg PD $\pm 5/-10$ mmHg <p>The accuracy of the BlueDop system has been established in two ways:</p> <ol style="list-style-type: none"> Using audio Doppler signals generated mathematically Using a Doppler phantom
REPORT OUTPUTS	HARMONISED STANDARDS
<p>Export: PDF</p>	<p>EN ISO 10993-1:2009/AC:2010 EN ISO 14971:2012 EN 1041:2008 EN 980:2008 EN 62304:2006 / AC:2008 EN 62366-1:2015 EN 60601-1-2:2015 EN 60601 – 1-1:2006 / A12:2014 EN 60601-1-6:2010+A1:2015</p>
SOFTWARE FEATURES	
<p>Screen Display: Designed for touch screen, High Definition</p> <p>Report Sharing: Export Report as PDF</p> <p>HIPAA: Patient privacy with use of site determined Patient ID</p> <p>Backup/Restore: Integrated. USB/DVD/Network.</p> <p>Comparison Charts: R/L, PT/DP</p>	
ADVANCED PROTOCOLS	SELECTED APPROVALS
<p>Lower Extremity:</p> <ul style="list-style-type: none"> Using Pressure from Waveform ABPI's Waveform Analysis for PVD detection 	<p>ISO 13485, CE 666355, EN 60601-2-37</p>